American eel abundance indicators in the southern Gulf of St. Lawrence

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ABSTRACT

This report compiles data that reflect abundance or abundance trends of American eels (*Anguilla rostrata*) in the southern Gulf of St. Lawrence. Data are derived from eel-directed research fishing, from research fishing that targets other species, and from commercial fisheries. Data sets that are presented include commercial and recreational eel landings (1917-2005), eel catch per unit effort (CPUE) from commercial logbooks (Gulf Nova Scotia: 1997-2005, Prince Edward Island: 1996-2006), CPUE and fishers' opinions on eel abundance trends from phone-out surveys (Gulf NS: 2001, PEI: 1998 and 2000), CPUE in eel-directed research fishing (1979-2005), eel numbers per sweep and estimated densities from electrofishing surveys (1952-2006), estimated eel densities and populations from mark-recapture and other methods (1930s to 2006), counts of eels in fishing gears which intercept upstream and downstream movements (1970-2006), length-frequency distributions (1967-2006), and age-frequency distributions (2002-2006).

RÉSUMÉ

Ce rapport compile des données qui réfléchissent l'abondance ou les tendances en abondance de l'anguille d'Amérique (*Anguilla rostrata*) dans le sud du golfe du Saint-Laurent. Les données proviennent de la pêche de recherche qui cible l'anguille, de la pêche de recherche qui cible d'autres espèces, et de la pêche commerciale. Les données qui sont présentées incluent les débarquements commerciaux et récréatifs d'anguilles (1917-2005), les prises par unité d'effort (PUE) des anguilles basées sur des livres de bord des pêcheurs commerciaux (secteur golfe de la Nouvelle-Écosse : 1997-2005, Île-du-Prince-Édouard : 1996-2006), les PUE et les opinions des pêcheurs sur les tendances en abondance des anguilles à partir des relevés téléphoniques (golfe N-É : 2001, ÎPE : 1998 et 2000), les PUE dans la pêche de recherche qui cible l'anguille (1979-2005), le nombre d'anguilles par passe et les estimés de densité basés sur les relevés de la pêche électrique (1952-2006), les densités d'anguilles estimées par marquage-recapture et d'autres méthodes (les années 1930-2006), les décomptes d'anguilles dans les engins qui interceptent les poissons qui montent ou qui descendent une rivière (1970-2006), les distributions longueur-fréquence (1967-2006), et les distributions âge-fréquence (2002-2006).

INTRODUCTION

The American eel (*Anguilla rostrata*) is a significant economic and ecological resource in the southern Gulf of St. Lawrence. Data on eels in this region have been reported by Smith and Saunders (1955), Eales (1966), Leblanc (1966), Medcof (1966, 1969), Vladykov (1969, 1970a,b, 1971), Gionet (1973, 1974), Wallace (1973), Younker et al. (1973), Taylor (1979), Hutchison and Taylor (1980), Hutchison (1982), Jessop (1982), Smith (1982), LeBlanc and Chaput (1991), Locke et al. (1995), Anon. (1996, 1997a), Cairns (1997, 2002, 2005), Paulin (1997), Chaput (1997), Chaput et al. (1997), Hooley (2000), ICES (2001), Prosper (2001), Corney 2002, Prosper and Paulette (2002), Cairns and Hooley (2003), Sharp et al. (2003), Cairns et al. (2004), COSEWIC 2006, and Lamson et al. (2007). Eel fisheries in the region are described in Integrated Fisheries Management Plans for Gulf New Brunswick, Gulf Nova Scotia, and Prince Edward Island (Anon. 2000, Anon. 2001a,b).

American eel fisheries in the southern Gulf are not currently managed on the basis of rigorously-derived scientific advice (Cairns and Casselman 2004). Indicators of historic and current eel abundance are a necessary precursor to understanding the dynamics of the resource, and to the implementation of a system for generating rigorous scientific advice. This paper documents available biological data that reflect abundance or abundance trends of American eels in the southern Gulf, with emphasis on landings, commercial and research catch per unit effort (CPUE), electrofishing data, and length- and age-frequency distributions.

METHODS

This paper reports data collected in Prince Edward Island and the Gulf of St. Lawrence drainages of New Brunswick and Nova Scotia (Figs. 1-5). Data sources are published literature and unpublished DFO files.

Sampling and measurements

Eels were captured in directed commercial fisheries, directed research fishing, and in research fishing intended to capture other fish. The major gear used in commercial eel fishing in the southern Gulf of St. Lawrence is the fyke net (also known as eel nets, eel traps, eel trapnets, and hoop nets). Typical stretch mesh sizes of fyke nets used in the commercial fishery are 25.4 mm in the cone section and 38.1 mm in the leader. Fyke nets were also the principal gear for directed research fishing. Fyke nets used in this study had mesh sizes of 21 mm in the cone and 19-21 mm in the leader. Some baited pots (rigid enclosures made of wire or plastic mesh) were also used in research fishing.

Small eels were captured with elver ramp traps deployed at the foot of obstacles to upstream passage (Fig. 6). These traps follow the same principle of operation as that described by Naismith and Knights (1988). We used open-topped troughs instead of pipes to carry water because this method was less susceptible to clogging by algae. Water carried by the troughs emptied into a chamber whose bottom was lined with a filter made of window screen. A gap in the side of the chamber allowed excess water to overflow. Water flowed through a slit in the bottom of the chamber onto a curved plastic surface, fashioned from PVC pipe, at the top of the ramp. Some of the water flowed down the ramp to attract eels. The remainder spilled into a capture chamber. Water exited from the capture chamber via openings covered with window screen.

Habitat traps attract aquatic animals by providing suitable cover (Phillips 1972, Silberschneider et al. 2001). We constructed habitat traps out of plastic dishpans, 35 cm in diameter and 12 cm high (Fig. 7). Ten lengths of destranded polypropylene rope were attached to the bottoms of the dishpans by cable ties. The diameter of the rope prior to destranding was 11 mm. Each piece of rope was 50 cm long and was attached at its midpoint. Habitat traps were weighted by pieces of iron that were cable-tied to the base inside the dishpan. Habitat traps were fished by lifting them out of the water and shaking them over a large pan.

We captured eels in winter by cutting holes in the ice and probing the bottom with mud spears (Fig. 8). Spears and spearing methods were the same as those used in the Prince Edward Island winter recreational fishery.

We obtained eel data from projects that captured other fish (primarily Atlantic salmon, *Salmo salar*) by electrofishing, rotary screw-traps (also called smolt wheels), barrier traps, fish fences, fishway traps, and estuary traps. Barrier traps and fish fences blocked the entire river. Estuary traps consist of a leader running out from the bank and a large pen into which the leader guides fish. When set to catch incoming adult Atlantic salmon, mesh sizes were 127 mm (leader) and 57 mm (pen). When set to capture descending Atlantic salmon smolts, mesh sizes were 127 mm (leader) and 19 mm (pen). We also obtained eel data from annual surveys conducted with bottom groundfish trawls in the southern Gulf of St. Lawrence.

Most measurements were taken on live, unanaesthetized animals. Eels captured in Long Pond, Dalvay, in 2003, and small eels captured in elver gear, were anaesthetized prior to measurement in a clove oil bath prepared in the following ratio: 0.1 mL of clove oil, 1.0 mL of ethanol, 2 L of water. Some eels captured in the Restigouche were anaesthetized with MS-222.

Most lengths were measured by lying the eel in a V-shaped measuring trough. In 2002, we implemented a new eel-handling system that increased efficiency and reduced escapees. The system consists of an intake bin and a measuring trough, both supported by removable legs (Fig. 9). Puck-like disks attached to the ends of the plastic bin rest on concave brackets that are attached to the legs. This allows the bin to tilt toward the measuring trough. With the hinged bin cover folded over the edge of the measuring trough, eels can be readily transferred from the bin to the trough with little risk of the eel escaping. The measuring trough has a

spring-loaded trap door. Eels are removed from the trough by pulling open the trap door while holding a pan underneath to catch the falling animal. Lengths of eels measured in measuring troughs were recorded to the nearest mm.

Measuring troughs were used to measure all lengths on Prince Edward Island except those caught by electrofishing prior to 1998 and those of small eels caught in ramp and habitat traps. Measuring troughs were also used to measure eels captured in estuary traps in the Miramichi and south-eastern New Brunswick, commercial samples in the Miramichi, electrofishing and rotary screw trap samples in New Brunswick and Nova Scotia after 2004, and research fyke nets in southeast New Brunswick and Merigomish Harbour, Nova Scotia. Small eels captured in the ramp trap were measured to the nearest 0.1 mm by laying them in a grooved board to which an electronic or Vernier calliper was attached.

In the Restigouche, the Miramichi, and the Margaree prior to 2005, eels lengths were measured with the aid of flat measuring boards (Chaput and Jones 2004). Flat measuring boards were used to measure eel lengths at the Catamaran fish fence, at estuary traps in the Tabusintac, and in electrofishing samples at all New Brunswick and Nova Scotia sites, and at PEI sites prior to 1998.

Eels were weighed with electronic balances.

Twenty-eight eels sampled from Trout River, Tyne Valley, Prince Edward Island, in fall 2002 were frozen upon capture and weighed and measured later. We corrected for freeze shrinkage of these specimens using equations determined as follows. In spring 2003, 25 eels were captured in Covehead Bay, Prince Edward Island, and adjacent freshwater ponds. The sample had a mean length of 53.0 cm (SD 16.0, range 26.4-81.9). Eels were measured and weighed, put in individual plastic bags, and placed in a freezer. Seven to 13 days later they were removed from the freezer, thawed, and re-measured and re-weighed. Correction equations as determined by linear regression were: initial length = 0.41+1.019*post freeze length, and initial weight = 4.331 + 1.031*post-freeze weight, where lengths are in cm and weights are in g (Fig. 10). Both regressions had $P<0.001$.

About 42% of the eels which we measured for length were also weighed. In some data summations, we estimated weight from length for animals which were not weighed. Weight (in g) was estimated from length (in cm) by the formula $0.0007006 \times \text{length}^{3.2332}$, which was derived from 6,341 eels sampled in the southern Gulf of St. Lawrence.

Regulations and landings

Regulations were summarized from the Maritime Provinces Fisheries Regulations and Variation Orders and from interviews with resource managers and fisheries officers.

Eel landings from 1917 to 1988 were obtained from LeBlanc and Chaput (1991). Data for subsequent years were obtained from DFO Statistics Branch. Licenced fish buyers are required to complete purchase slips for eels they purchase and to provide these records to DFO Statistics Branch. Fisheries officers and, in recent years, statistical officers, estimate the amount of eels landed which are not recorded on purchase slips. Such landings include eels retained for personal use or sold to unlicenced buyers, recreational landings, and eels taken illegally. These estimated landings are recorded on forms known as Supplementary B slips. DFO landings statistics include both purchase slip data and Supplementary B data.

Landings reported by LeBlanc and Chaput (1991) for Statistical Districts 2 and 3 (west coast of Cape Breton Island) for 1968-1972 and for 1974-1976 are much higher than those recorded for other years. Interviews with fisheries officers on duty at the time indicated that the reported numbers are implausible. We have therefore used alternate sources as follows. For 1968, we used landings for Districts 2 and 3 from Anon. (1968). For 1969-1972 and 1974-1976, total landings for Districts 2 and 3 were taken as Nova Scotia landings (Anon. 1976, and earlier reports in the same series) minus Nova Scotia Scotia-Fundy landings (Jessop 1996), minus Nova Scotia Gulf mainland landings (LeBlanc and Chaput 1991). Landings for individual Districts 2 and 3 are from the ratio of summed landings for these districts for the years 1964-1968, 1973, and 1977-1981.

South Shore Trading Co. of Port Elgin, N.B., is the major eel buyer in Gulf Region. Weight of eels purchased by this firm and its agents are compiled from company records.

Fisher surveys

Commercial eel fishers in Gulf Nova Scotia are required to record their eel fishing effort and catch in logbooks which are submitted annually to DFO. Effort in the fyke net, pot, and weir fisheries was calculated from records of the number of gears deployed, multiplied by the number of days of deployment. Effort in the spear fisheries was taken as the sum of recorded hours fishing.

Information on effort and landings on Prince Edward Island was obtained through a logbook program which has operated since 1996. Three to seven commercial eel fishers volunteer each year to participate in the program. Logbooks and pre-stamped return envelopes are mailed to the logkeepers prior to the eel season. The logbooks are printed on waterproof paper and are formatted to fit in a shirt pocket. The logbook contains a line for each day of the fishing season, with spaces to record the number of fyke nets in the water, the catch of legal eels (in pounds), and the number of eels under the minimum legal size (46 cm up to 1997, 50.8 cm in 1998-2004, 53.0 cm in 2005 and subsequently).

Data on the distribution, effort, and harvest of eel fishing were obtained through phone-out surveys of commercial eel fishers in Gulf Nova Scotia in fall 2001 and on Prince Edward Island in fall 1998 and 2000.

In Nova Scotia, the list of survey subjects covered all holders of commercial eel licences. In Prince Edward Island, only holders of commercial fyke net licences were surveyed. Holders of spear licences on PEI were not surveyed because that fishery operated at a minimal level in 1998 and thereafter shut down due to market conditions. A letter was mailed approximately one week prior to the start of the phone-out survey to inform subjects that they would be contacted by telephone and asked questions about their eel fishing activities.

During phone surveys, subjects were asked if they had fished eels commercially in the preceding year. If they responded with yes, they were then asked to compare current eel abundance with that of previous years. The interviewer went on to ask about the location of fishing, the timing of gear deployment, the number of days fishing, and landings. These questions were asked for each gear type (fyke nets, eel pots, weirs, winter spearing and summer spearing in Gulf Nova Scotia; fyke nets in PEI). Additionally, in the Nova Scotia survey, three licence-holders who had not fished commercially during the 2001 season but who seemed very knowledgeable of the local eel fishery were asked their view on abundance trends in the local eel population.

At five year intervals since 1975, the Department of Fisheries and Oceans and its predecessors have collaborated with provincial recreational fisheries agencies in a mail-out survey to recreational fishers. A survey of the same type was also conducted on PEI in 1973. Lists of survey subjects are derived from holders of recreational fishing licences, issued by provincial agencies. Numbers of eels caught and retained are estimated from survey responses. This survey series gives estimated eel catches by holders of trout fishing licences on PEI. Because results are reported as provincial totals, this survey cannot be used to estimate eel catches in the Gulf drainages of New Brunswick and Nova Scotia.

Research fishing other than electrofishing

Eel-directed research fishing was conducted in south-eastern New Brunswick; Merigomish Harbour, Nova Scotia; and in various locations in Prince Edward Island. Some published historical data are also available. Fyke nets were the principal gear in eel research fishing. Baited eel pots and spears were used at some locations. CPUE in kg per gear-day was calculated from field-measured weights where available, and from weights estimated from lengths where weights were not directly measured. In this paper barachois ponds refer to coastal ponds separated from the open sea by a sand barrier. These ponds are fresh or nearly so.

Electrofishing surveys

DFO-Gulf Region conducts electrofishing surveys in rivers draining into the southern Gulf of St. Lawrence to evaluate salmonid populations (Chaput and Claytor 1989; Atkinson et al. 2000; Cairns et al. 2000; Chaput et al. 2000, 2001; Douglas and Swasson 2000; Marshall et al. 2000; O'Neil et al. 2000; Cairns 2002; Leblanc and Chaput 2003; Atkinson 2004; Moore and Chaput 2007). We estimated eel densities from data gathered during these surveys.

Prior to 1993 all electrofishing surveys were conducted with multiple sweeps in sites bounded upstream and downstream by barrier nets. This method allows calculation of populations by the removal method (Zippin 1958). In the early 1990s, single-sweep electrofishing sessions without barrier nets were introduced to improve survey efficiency (Chaput et al. 2005). Effort was measured as seconds of electrofishing time. The relation of salmon CPUE to abundance was determined from calibration sites where a single CPUE sweep was made within barriered sites which were subsequently fished with the removal method, by which populations were estimated. Single sweeps without barrier nets are referred to as Sweep 0.5. Sweeps with barrier nets are called Sweep 1, 2, 3, etc.

At some sites in recent years salmonid populations were estimated by mark-recapture, using two sweeps and no barrier nets.

We estimated eel populations in electrofishing sites by the Zippin formula when it was possible to do so. At some sites the Zippin formula could not be applied because catches were too low, because catches did not decline with sweep number, or because only one sweep was conducted. Populations at these sites were estimated with the aid of correction factors. Correction factors were calculated as follows. For each site where a Zippin population estimate was available, the Sweep 0.5 count as a proportion of the Zippin population estimate and the Sweep 1 count as a proportion of the Zippin population estimate were calculated. We also calculated the sum of Sweeps 0.5 to 3, the sum of Sweeps 1 to 3, the sum of Sweeps 1 to 4, and the sums of Sweeps 1 to 5, as proportions of the Zippin estimate. The means of these proportions were calculated per river and across all rivers. Correction factors were the inverse of these means.

To illustrate, consider a 3-sweep electrofishing session on the Miramichi River where Sweep 1 captures no eels, Sweep 2 captures two eels, and Sweep 3 captures three eels. The Zippin algorithm cannot be used because the numbers caught do not decline with sweep number. In the Miramichi, on average, the sum of Sweeps 1 through 3 was 0.800 of the Zippin population estimate for the site. The inverse of 0.800 is 1.25. In our example, five eels were caught in Sweeps 1 to 3. Hence the population estimate for the site is 5 x 1.25 = 6.25.

Chaput and Claytor (1989) reported eel density estimates for the Margaree River for 1957-1987. In the present report densities were recalculated from original data and differ in some instances from those of Chaput and Claytor (1989).

Densities

Eel densities in ponds and estuaries on Prince Edward Island were estimated by mark-recapture. Eels were marked with unique combinations of brands that were cooled by dipping in liquid nitrogen (Sorensen et al. 1983). Populations were estimated by Bayesian analysis (Gazey and Staley 1986).

Interception surveys

Eels caught in barrier traps, estuary traps set for adult salmon, estuary traps set for salmon smolts, rotary screw traps, fish fences, and fishway traps were tabulated by week. We also tabulated weekly counts of eels caught by fyke nets in outlet streams of barachois ponds, and by elver ramp and habitat traps.

Length and age structure

Length frequencies of eels caught in research gear were plotted in 5 cm bins, except for eels caught in elver traps where 0.5 cm bins were used. Length frequencies from literature sources were plotted in the smallest bin size that the published data permitted.

Eels sampled at Boughton River and Whitlocks Pond in 1999 were aged by Jen-Shieh Shiao, National Taiwan University (see Cairns et al. 2004). Thirty eels sampled from the outlet of Long Pond, Dalvay, in fall 2002 were aged by Valérie Tremblay, Université du Québec à Rimouski. All other eel ages were obtained as below.

Two different methods were used to extract otoliths. In the first method (the "wide smile" method), incisions were made posteriorly from each corner of the mouth, and a further incision was made to remove the top of the head from the rest of the body. Otoliths were then removed from the bottom of the brain case via the soft palate. In the second method (the "snout-off" method), the distance between the back of the cranium and the eyes was noted, and the front of the head was severed at a point 1/3 of this distance posterior to the eyes. The cut was made with serrated scissors, a utility knife, or a hacksaw. This cut traversed the anterior part of the brain case, which appeared as a small ring in the dorsal part of the cross-section. One blade of a pair of scissors was inserted into the brain case along the midline of the body, and the scissors were used to cut upwardly through the roof of the brain case. A scissors blade was again inserted in the brain case, and the scissors were used to cut downward along the midline of the body. A scissors blade was inserted in the digestive cavity, and the scissors were used to cut downward. By deepening these cuts, it was possible to separate the left and right sides of the head. Tweezers were used to first remove the soft tissue from the brain case, and then to remove the otoliths from the floor of the posterior part of the brain case. Otoliths were stored in a 50:50 mixture of glycerin and alcohol.

Otoliths were prepared and read at the DFO aging lab in Moncton, following the methodology of the Ministère des ressources naturelles et de la faune du Québec (R. Tardif, pers. comm.). Briefly, otoliths were soaked in a javex-water solution, then in demineralized water, and then dried in a 70% alcohol solution. Otoliths were mounted in plugs made of epoxy resin, and sanded with fine sandpaper until the nucleus was reached. The surface was then polished with aluminum powder. Otoliths were treated with 5% EDTA, and stained with toluidine blue. Prepared otoliths were magnified under a dissecting scope equipped with a digital camera. Otolith rings were read on a computer screen that was linked to the camera.

Eel otoliths typically show a solid mark at the centre, surrounded by rings. The central mark corresponds to the period of oceanic migration. The first ring, termed the elver check, is formed regardless of whether the young eel remains in coastal salt water or migrates to fresh water (Jessop et al. 2006). Ages were assigned according to the convention that eels are age 0 in the year of their arrival in continental waters. The first ring was considered to be the elver check, and subsequent rings were considered to be checks formed annually in winter. Hence eel age was calculated as the number of rings minus one.

RESULTS

Regulations and landings

Management of eel fisheries in the southern Gulf of St. Lawrence is the responsibility the Department of Fisheries and Oceans, with administration conducted from the Gulf New Brunswick, Gulf Nova Scotia, and Prince Edward Island Area Offices. This has resulted in fishery regulations which vary among areas (Table 1). All commercial eel fishers must hold licences which are specific to gear type. A licence is required for the recreational pot fishery in Gulf Nova Scotia, but no licence is required to spear eels recreationally in Prince Edward Island. Further details of eel fisheries and management in Gulf Region are given by Anon. (2000, 2001a,b) and by Cairns (2005).

Tables 2-3 and Figs. 11-12 present reported eel landings in the southern Gulf for 1917-2005. Reported landings broken down by province, month, gear type and by report type (Supplementary B, not Supplementary B) are given in Tables 4-6.

Fisher surveys

Tables 7-9 present CPUE data from the Gulf Nova Scotia fyke net, pot, weir, winter spear, and summer spear eel fisheries. CPUEs calculated from the phone-out survey of Gulf Nova Scotia commercial eel licence holders in fall 2001 are given in Tables 10-11 and Fig. 13. We also asked interviewees to compare current abundance with that of previous periods; results are given in Table 12. Fig. 13 presents the distribution of eel fishing activity in Gulf Nova Scotia and PEI, according to information provided by interviewees in the phone-out surveys.

Table 13 and Fig. 14 present CPUE of fyke net fishers on PEI, calculated from logbook records, and standardized to the 53.0 cm minimum size imposed in 2005. CPUEs calculated from the phone-out surveys to PEI fyke net licence-holders in 1998 and 2000 are given in Table 14. Table 15 reports interviewees' views on current abundance of eels in comparison with earlier periods.

The lobster fishery in the southern Gulf of St. Lawrence is prosecuted in inshore waters, using baited pots. Some fishing is done in bays, but most is done in unsheltered open waters. In fall 2000 we telephoned 11 lobster fishers from North Rustico and Covehead, on the central north shore of Prince Edward Island, and asked if they had ever captured American eels in lobster traps. All replied that they had never captured American eels in their lobster gear.

Research fishing other than electrofishing

Table 16 presents CPUE from eel-directed research fisheries in the southern Gulf area that used fyke nets and pots.

Gulf Region of DFO conducts annual bottom trawl surveys in the southern Gulf of St. Lawrence (Hurlbut and Clay 1990). Surveys are conducted primarily in September. The survey area includes all of the area south of the Laurentian Channel, although coverage is limited in the central Northumberland Strait due to the presence of lobster gear. Survey crews conducted 4,351 valid trawl sets in 1971-2003. No American eels were caught in any of these sets (Benoît et al. 2003; T. Hurlbut, DFO, pers. comm.).

Electrofishing surveys

Naismith and Knights (1990) reported that eel catch per sweep in electrofishing surveys often fails to decline with sweep number. They interpreted this to mean that some eels do not leave their burrows until after the first or second sweep, and that some may be stunned but remain hidden in the substrate. The removal method (Zippin 1958) requires that, on average, the number of captured animals decreases with sweep number. In electrofishing surveys in the southern Gulf, mean number of eels per sweep decreased regularly with sweep number, as required by the Zippin method (Table 17).

Table 18 presents correction factors, which were used to estimate populations of eels in electrofishing sites from counts per sweep, in cases where the Zippin algorithm could not be applied. Tables 19-26 and Fig. 15 present electrofishing survey data for the Restigouche, Jaquet, Tabusintac, Miramichi, Kouchibouguac, Kouchibouguacis, Richibucto, Buctouche, Cocagne, Phillip, Wallace, Waugh, John, Middle Pictou, East Pictou, Sutherlands, French, Barneys, West Antigonish, South Antigonish, Pomquet, Afton, Tracadie, Mabou, Margaree, Cheticamp, Ellerslie, Enmore, Little Pierre Jacques, Morell, Seal Vernon, Trout Coleman, and Vernon Rivers. Table 27 compiles estimated densities by decade, and also presents estimated total river populations calculated from mean decadal densities and areas of fluvial habitat.

Densities

Table 28 presents eel population estimates for six barachois ponds, one freshwater impoundment, and three estuaries on Prince Edward Island, based on Bayesian mark-recapture analysis.

Table 29 summarizes eel density estimates from electrofishing surveys and mark-recapture studies in the southern Gulf, and also compiles literature estimates of eel densities in northeastern North America.

Interception surveys

Table 30 provides weekly counts of eels in gear set to capture fish moving up or down rivers and estuaries. Count data are plotted by yearly mean in Fig. 16, and by week and by site in Fig. 17. Estuary trap nets commonly contain dead gaspereau in June, which may attract eels. This may affect count totals during that month.

Length and age structure

Length frequencies of eels measured in the southern Gulf of St. Lawrence are presented by location and year (Fig. 18), by location across years (Fig. 19), by gear across regions and years (Fig. 20), and in regional summations (Fig. 21). These figures plot results where sample size $\geq$10. Lengths of eight eels sampled in habitat traps at the output stream of Long Pond, Dalvay, in July-August 2003 ranged from 5.7 cm to 36.1 cm.

Fig. 22 plots age-frequency distributions of eels sampled in Miramichi Bay; Miramichi River; Trout River, Tyne Valley; Long and Campbells Ponds, Dalvay, Boughton River, and Whitlocks Pond.

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Table 1. Summary of regulations governing commercial and recreational eel fisheries in the southern Gulf of St. Lawrence. There is no fishery for American eel elvers in the southern Gulf of St. Lawrence.

Sector	Waters	Gear	Licence required	Number of licences in 2004	2004-2006	2004		2005		2006		Comments
					Minimum distance between gears (m)	Open season	Minimum size (cm) that may be retained	Open season	Minimum size (cm) that may be retained	Open season	Minimum size (cm) that may be retained	
Gulf NB												
Commercial	Tidal[a]	Fyke nets	Yes	163	200	1 Apr - 31 Oct	50	1 May - 30 Jun 22 Jul - 7 Oct	53	1 May - 30 Jun 1 Aug - 18 Oct	53	The minimum size in all Gulf NB eel fisheries increased from 20 cm to 38.1 cm in 1996, to 46 cm in 2001, and to 50 cm in 2004. Open seasons for Restigouche and Gloucester Counties in 2005 was 22 Apr - 30 Jun and 22 Jul - 30 Sep. There are some local variations in open season.
Recreational	Tidal	Spears	No			16 Nov - 31 Aug	50	15 May-31 Aug 1 Dec - 31 Jan	1, 53	15 May-31 Aug 1 Dec - 31 Jan	1, 53	A maximum of 10 eels per day may be retained. In 2005 and 2006, minimum size was 1 cm for winter spearing and 53 cm for summer spearing.
Gulf NS												
Commercial	Tidal[a]	Fyke nets	Yes	48	200	1 Sep - 31 Oct	50	1 Sep - 31 Oct	50	1 Sep - 31 Oct	50	The minimum size in all Gulf NS eel fisheries increased from 20 cm to 46 cm in 1996, and to 50 cm in 2001.
Commercial	River	Weirs	Yes	16	200	1 Sep - 31 Oct	50	1 Sep - 31 Oct	50	1 Sep - 31 Oct	50	Used in non-tidal portions of the Margaree River to capture descending silver eels.
Commercial	Tidal[a]	Pots	Yes	63	200	1 Sep - 31 Oct	50	1 Sep - 31 Oct	50	1 Sep - 31 Oct	50	
Recreational	Tidal	Pots	Yes	6	200	1 Sep - 31 Oct	50	1 Sep - 31 Oct	50	1 Sep - 31 Oct	50	A maximum of 10 eels per day may be retained.
Commercial	Tidal	Spears	Yes	35		15 Jan - 30 Jun	50	15 Jan - 30 Jun	50	15 Jan - 30 Jun	50	
Recreational	Tidal	Spears	No			15 Jan - 30 Jun	50	15 Jan - 30 Jun	50	15 Jan - 30 Jun	50	A maximum of 10 eels per day may be retained.
PEI												
Commercial	Tidal	Fyke nets	Yes	238	200	16 Aug - 15 Oct	50.8	16 Aug - 15 Oct	53	16 Aug - 15 Oct	53	A 46 cm minimum size was imposed in all PEI eel fisheries in the 1970s. The limit was raised to 50.8 cm in 1998. In 1999, the open season for the fyke-net fishery was changed from 16 Aug - 31 Oct to 16 Aug - 15 Oct.
Commercial	Tidal	Spears	Yes	679		17 May - 30 Jun	50.8	Closed		Closed		Prior to 1993, the season was 1 Apr - 15 Aug. Prior to 1996, spearing was also permitted in Nov. In 1999, the season was changed from 1 Apr - 30 Jun to 17 May - 30 Jun. In 2001, the season was changed to 1 - 30 Jun. In the early 2000s this fishery became inactive due to market conditions.
Recreational	Tidal	Spears	No			1 Jan - 31 Mar	50.8	20 Dec 2005 - 26 Feb 2006	25	20 Dec 2006 - 29 Jan 2007	25	A maximum of 6 eels per day may be retained. The season in winter 2005/2006 was extended to 26 Feb due to late freeze-up.

[a]Some gears are licenced for specified non-tidal waters

Table 2. Reported landings (tonnes) of eels in the southern Gulf of St. Lawrence, by statistical district. Data from LeBlanc and Chaput 1991 (1917-1988) and from DFO Statistics Branch (1989-2005). Blank cells indicate no landings were reported.

Year	New Brunswick														Nova Scotia							Prince Edward Island									
	Bay of Chaleur			Gulf - north			Miramichi				Gulf - central		Gulf - southeast		Mainland west			Mainland - east			Cape Breton		North shore - west and central				East		South shore - west and central			
	63	64	65	66	67	68	70	71	72	73	75	76	77	78	80	45	46	10	11	12	13	3	2	92	93	95	96	88	87	86	85	83	82
1917	1.4		0.8			33.1		3.6	1.6	0.3		0.7	5.4	0.7	3.4				0.4	4.3	7.9											
1918	1.4				1.1	36.5		2.9	3.6			8.2	1.8	2.7	3.6					1.4	5.4	3.3	3.0									
1919	1.1	0.5	2.7			47.7	2.3	0.3	2.7		7.3	5.2		2.3	3.0					0.8		3.2	2.3									
1920	1.1					9.4		8.0	1.8			2.3	0.4	0.1	1.1					0.7	2.2	7.8										
1921	1.6					4.5		4.5	7.0			13.5	6.7	1.8	1.1					2.4	6.2	6.2										
1922	1.2					4.5		3.6				2.3	1.8		0.6					1.5	5.4	0.6										
1923	1.8			0.5		4.5			1.1			0.5	0.7		1.1					0.2	0.5											
1924	1.2			0.9		1.1			0.9			4.4	0.4		1.1					1.0	6.4	0.1										
1925	0.9			0.8		13.6			1.8			0.2			1.1					1.5	2.7	0.1										
1926	0.3			0.7		2.3						1.0			1.1					3.9	1.8											
1927	0.5					0.9														3.0	0.5											
1928	1.0					4.5			1.8	8.9		0.1								3.2	3.2	0.2										
1929	0.5					3.6			0.5	0.6										0.7	3.6	0.2										
1930	1.0					8.9			0.7	1.2										2.2	10.9	2.1										
1931	0.7					17.0			0.5	0.3		0.1	0.2							3.5	8.2	0.2										
1932	0.1					6.3	0.5		0.4				1.8			0.0				4.5	9.1	0.2										
1933						7.4	1.2		0.1			0.7	1.6							4.0	9.5	3.2										
1934						9.4	0.5		0.1			0.8	0.5							2.5	2.7	0.6										
1935						3.9	1.3		0.3			1.5	0.6						0.0	2.1	2.7	0.4										
1936						1.6	1.4		0.2			0.3	0.9						0.0	1.4	2.3	0.4										
1937						2.0	2.5		0.3			0.4	0.5							0.5	3.2	0.5										
1938						2.3	4.1		1.6			1.2	0.2					0.1	1.4	2.8	5.4											
1939						5.7	3.7		0.1			1.0	0.5					0.1	0.3	3.4	3.6	1.3										
1940						0.9	2.1		0.3			1.0	0.5					0.1	0.2	3.4	5.4	1.5										
1941							2.0		0.2			0.9	0.5								2.0	1.4										
1942						5.1	2.7		2.7			1.5	0.5					0.0	0.3		2.4	2.1										
1943						8.9	1.0		3.1				1.1						0.1		2.6	2.3										
1944						3.9	1.3		3.8			3.5	1.4					0.0	0.2	0.9	4.1	1.7										
1945						6.4	0.6		4.5			1.6	1.4					0.1	0.2	6.5	3.0	0.9										
1946						10.1	1.9		3.9			7.5	1.4		4.3			0.0	0.1	11.6	3.5	1.5										
1947						20.9	0.9		2.3			6.8	0.9							8.6	3.2	1.8						0.9				
1948						17.7	0.9		1.4			4.5	4.5							6.4	1.4	0.9						10.0				
1949						10.9	1.8		4.5			8.6	3.6						0.9	4.5	27.7	4.5						3.6				
1950						5.4	3.6		3.2			8.2	1.8						0.5	4.1	15.4	3.6						2.3				
1951						5.4	1.4		3.2			0.5	5.0						1.4	5.0	9.1	5.4						3.6				
1952						7.7	1.8					2.7	3.6						0.5	3.2	5.9	2.3						5.0				
1953						5.4	0.9					1.8	5.0						0.9	0.5	4.5	1.8					4.5	1.8				
1954						5.4	3.2					0.9	23.6						0.5	1.4	2.7	1.8					0.5	3.2				
1955		0.9				3.6	0.5					40.4	3.2						0.9	1.4	4.1	4.1					9.1					
1956						3.2	0.5				0.5	1.8	4.5						0.9	0.5	12.7	0.5					2.3	2.3				
1957						2.7	0.5					5.4							2.3		5.9	0.5	1.4		5.0		1.4	0.9	2.7		2.3	
1958						2.7						10.9	0.9						1.8	0.5	9.5	0.5	1.8	0.9	5.0		1.8	1.4	0.5		9.1	
1959						8.2	2.7				0.9	9.5	2.3							0.9	8.6	1.4	0.5	0.9	12.3		4.5	0.5	0.5	3.2		4.5	
1960						10.9	1.8			0.9	1.4	13.2	2.7						0.5	0.5	15.4	2.7	4.5	1.4	5.4		7.3	2.3	1.4	5.4		8.2	0.5
1961						9.1	0.5	0.5		0.5	2.7	41.8	2.3						0.9	0.5	15.0	6.4	5.0	1.8	2.3		5.0	1.8		1.8		3.6	1.4
1962						7.3	1.8	0.5		1.4	5.9	62.7	2.3					0.5	1.4	0.5	10.4	3.2	10.4	2.7	1.8		0.9			5.4		1.4	0.9
1963					0.9	10.0	1.4		0.5	0.5	7.3	31.3	1.8						0.9	0.9	10.9	2.7	8.2	1.4	1.8		1.4	1.8		1.8		6.8	0.9
1964				0.5		18.2	4.1			0.5	10.9	19.5	2.7					0.5	0.5	0.5	11.4		5.9	1.4	9.1	0.9	2.7	1.4	1.4	4.1		12.7	0.5
1965						17.7	3.2	3.6		0.5	17.7	10.4	9.5							0.5	10.4		5.4	0.9	7.3	1.8	1.8	4.5	2.3	6.8	1.4	21.3	0.5
1966			0.5		0.5	21.8	7.3			0.5	24.1	30.0	14.5								12.3		2.7	0.5	5.4	1.8	1.8			5.0	0.5	17.3	0.5
1967					18.6	22.7	4.5	4.1	23.6	13.6	6.8	5.0	9.1						0.5	0.9	34.1	0.9	15.9	2.7	4.5	2.3	0.5	3.6	12.3	2.3	0.5	33.1	
1968			0.8		1.4	34.8	8.2	21.6	28.8	7.3	9.3	10.9	15.1	12.2	0.2					1.6	21.7		5.0	25.0	18.7	3.8	3.5	22.9	4.8	4.7		47.2	0.1
1969			2.5	0.2	1.1	82.7	2.0	25.6	16.0	9.0	24.9	19.4	6.0	24.7	0.1	0.2			0.3	1.7	22.8	0.4	12.7	47.9	19.2	3.5	7.1	41.9	17.1	3.7		49.9	4.2

Table 2 (continued)

Year	New Brunswick															Nova Scotia										Prince Edward Island									
	Bay of Chaleur			Gulf - north			Miramichi				Gulf - central		Gulf - southeast			Mainland west			Mainland - east			Cape Breton		North shore - west and central				East		South shore - west and central			
	63	64	65	66	67	68	70	71	72	73	75	76	77	78	80	45	46	10	11	12	13	3	2	92	93	95	96	88	87	86	85	83	82
1970		0.7	2.3		32.7	102.3	4.9	23.0	8.5	5.7	26.2	70.2	11.8	6.2	0.2	0.2	0.2		3.5	5.5	26.6	0.3	9.1	54.4	25.1	1.6	9.7	50.4	12.4	1.8	1.4	76.7	6.4
1971		7.4	4.8	0.0	59.2	52.3	14.1	29.8	10.6	0.6	29.4	75.1	24.2	11.8	0.1	1.1	0.0		7.4	4.3	28.1	0.3	10.8	62.5	39.0	5.3	7.7	35.1	45.8	3.6		138.8	13.6
1972		4.0			56.0	38.9	44.6	22.4	10.2	0.1	20.9	56.7	9.7	9.0	0.3	0.0			7.6	1.1	18.0	0.7	22.9	63.9	25.9	21.2	9.6	30.4	20.8	4.1		89.1	7.8
1973			0.1		52.7	21.7	46.5	4.2	7.7	11.4	23.8	39.1	5.2	7.7	0.3				1.2	1.5	19.6	1.0	4.7	31.8	18.4	14.9	7.3	13.7	15.1	3.3		47.7	5.0
1974		0.1		2.0	42.4	23.3	23.1	12.9	2.7		16.1	17.2	3.7	12.4	0.3				.	1.4	23.4	0.1	3.4	13.2	10.8	5.7	10.9	10.3	12.2	3.7		34.4	
1975				0.1	24.8	38.6	10.8	17.7	1.1		12.4	8.3	3.4	3.4	0.2	5.0			2.3		14.0	0.2	7.1	20.7	12.1	11.8	4.3	12.0	13.7	1.6	0.7	26.6	
1976				0.9	30.3	26.8	2.4	15.0		0.8	10.7	8.3	18.8	4.7	0.0	4.9			2.8		4.0	0.2	6.1	24.5	9.9	3.9	1.2	8.7	11.9	3.5		29.5	1.0
1977					15.0	17.5	3.1	10.0		1.4	8.8	20.0	1.7	32.6	0.0				0.6		2.9		2.4	19.6	12.1	3.2	0.9	17.7	10.6	7.0		26.3	0.2
1978			1.2		14.2	19.2	3.7	18.7			9.3	6.4	0.3	8.6					1.2	2.8	1.2		7.1	28.0	17.8	5.4	2.1	21.2	10.5	0.7	1.5	26.2	0.2
1979					8.4	35.5	7.3	23.1		0.5	11.0	11.9	2.4	1.6	0.7	4.1			1.0	1.1	0.3		6.1	23.7	21.7	6.9	0.4	6.1	29.0	0.3	0.5	22.4	
1980					17.7	54.2	9.1	15.7		9.3	14.8	19.3	7.5	2.6	0.2	1.9			0.2	0.8			6.6	8.5	27.5	21.9	2.1	22.0	18.8	0.2	0.1	18.9	0.1
1981			1.3		18.8	62.9	7.2	21.3		1.3	26.4	41.3	9.7	0.9	0.1	2.6			0.3		0.3		4.3	34.7	49.0	45.9		42.8	31.2	2.5		13.0	0.9
1982			0.0	0.0	13.9	17.6	4.9	19.3		0.3	17.0	67.7	18.0	0.5	0.0	1.2			1.1		0.2		8.8	39.3	38.4	25.8	0.9	25.1	17.5	0.3		20.1	0.2
1983						9.9	3.7	10.1		4.8	4.2	41.7	21.8	1.2	0.0	1.1	0.2	0.0	0.1	0.2	2.6		5.4	34.2	30.3	27.6	0.1	28.1	7.1	0.4		21.4	1.3
1984					1.5	24.7	4.1	7.7		0.4	11.9	66.6	5.5			2.2							6.7	30.1	27.6	55.9	0.4	33.9	3.8	0.3		12.6	
1985			0.9		7.4	44.4	2.5	3.4		1.8	12.6	103.9	25.4	0.0	0.1	0.3		0.0	0.0		0.5		4.3	40.9	28.8	10.3	1.4	30.6	2.5	2.1		22.7	0.1
1986			1.4		6.8	10.0	5.4	8.9		1.9	12.5	94.0	89.2		0.1	1.4	1.6	0.0		0.1	2.6		9.9	28.4	62.8	21.1	5.5	32.4	2.2	23.6	5.1	44.9	
1987			3.6		4.3	3.6	5.4	8.9		3.7	19.9	104.5	16.3		1.4	1.9	1.3		1.3	2.1	2.3	0.1	4.2	9.6	57.8	16.7	1.0	32.4	1.7	0.6	0.6	29.5	
1988			4.2		1.4	3.5	30.8	8.2		1.6	23.8	130.4	28.9	0.3	0.4	1.4	1.3		0.3	5.8	14.2		1.7	15.3	31.3	16.6	1.7	35.1	11.3	5.4	0.3	7.7	
1989			1.4		1.4	30.5	13.1	8.8		1.2	11.2	109.2	31.3	0.9	0.0	3.0	4.3		1.2	4.4	15.2	0.1	2.0	7.1	13.9	18.6	1.6	17.0	9.2	0.6		1.5	
1990				3.6	21.9	7.2	26.4	10.8		5.0	9.6	44.8	19.9		0.1	0.7			1.7	6.6	10.3	1.3	0.2	15.6	60.1	16.8		17.8	10.3			3.2	
1991			0.7	1.3	9.6	17.1	4.7	10.5			25.2	49.4	11.7		0.0			1.4	0.8	6.2	18.3	1.3	6.8	7.3	68.3	13.6	1.7	18.0	1.6			14.0	2.1
1992				0.7	3.0	27.6	3.0	9.1		0.3	14.9	52.6	8.4		0.0	0.3		1.0	5.0	20.2	20.9	3.4	5.2	6.0	10.4	8.7	0.3	23.1	2.2			3.3	
1993				0.1	7.0	12.8	10.8	8.9		0.2	20.0	26.3	2.1	0.0	0.1	1.7			9.9	13.8	58.5	1.6	3.7	17.8	23.6	9.0	2.0	3.3	14.5	0.6		2.5	0.7
1994				0.3	7.9	9.0	5.7	7.3			14.3	21.2	1.4	0.1	0.9	2.5			1.7	2.7	27.0		8.4	6.7	12.8	8.1	5.1	5.9	3.3	0.4		1.6	1.9
1995			0.5	2.3	3.5	11.9	4.2	4.4		0.5	6.0	24.4	2.1	0.3	0.0	0.2			1.5	1.2	10.3	0.3	2.6	1.5	23.3	4.9	1.4	0.2	2.1	0.1		0.3	0.8
1996			1.4	1.3	6.5	11.2	5.2	2.8		0.8	3.0	14.0	2.5		0.0				0.7	0.1	6.4		4.2	2.9	21.8	4.0	2.0	3.8		0.0	0.0	0.7	0.8
1997	0.1	1.4	0.2	10.8	4.6	3.8	1.9		1.0	2.6	6.2	2.7	1.0	0.0	0.8				1.3	0.6	11.6		3.0	3.4	10.7	3.2	5.3	5.5	1.7	0.3	0.2	1.0	0.1
1998			0.7	2.8	9.5	8.2	6.0	1.4		2.3	2.2	12.3	3.0	0.9	0.0	0.0	0.0			1.2	9.0	0.3	4.5	4.1	6.1	4.7	1.4	3.3	1.9	0.8	0.1	1.1	0.1
1999			1.4	4.4	13.4	6.9	5.3	3.2		0.7	2.5	1.6	4.5	2.4	1.0	1.0					3.4	0.2	4.4	10.6	11.3	6.8	0.2	2.0	2.9	0.2	0.3	0.9	0.1
2000			0.9	2.3	32.9	8.3	2.0	4.3		0.6	1.0	19.0	1.9	1.8	1.4				0.1		2.0	0.4	4.4	8.6	18.8	7.9	5.3	11.2	4.0	0.8	0.1	1.5	5.3
2001			0.7	0.3	37.0	20.2	7.4	2.6		1.0	3.9	13.4	2.6	2.1	1.0					0.1	0.2	0.1	3.0	7.4	14.3	8.0	1.2	0.6	4.0	0.1	0.1	5.4	0.1
2002				1.8	34.2	23.5	11.1	1.5		3.8	17.0	30.4	3.4	1.3	1.1				0.1	0.3	0.9		2.9	14.5	15.1	14.8	3.8	18.7	12.6	0.1	0.1	6.6	0.3
2003	0.1		2.3	1.8	30.1	33.0	20.6	0.1		3.5	9.5	23.2	3.4	11.7	0.2					1.1	3.6	0.9	3.5	12.1	12.0	12.2	0.4	13.0	8.0	1.1	0.1	11.7	0.7
2004	0.2		3.0	2.7	22.6	27.1	18.6	2.5		21.1	5.9	10.3	6.6	8.8					0.1	0.5	2.5	0.1	1.2	10.7	16.5	11.4	0.9	10.5	4.5	0.1	0.3	13.1	1.0
2005	1.5		1.8	4.2	19.9	19.0	14.9			7.3	5.0	14.2	5.8	8.3						1.8	1.4	0.3	3.5	11.0	3.8	16.3	5.3	10.9	1.5			6.3	0.7

[a]Landings reported by LeBlanc and Chaput (1991) for Statistical Districts 2 and 3 for 1968-1972 and for 1974-1976 are implausibly high. For 1968, landings for these districts are from Anon. (1968). For 1969-1972 and 1974-1976, summed landings for Districts 2 and 3 are taken as Nova Scotia landings (Anon. 1976, and earlier reports in the same series) minus Nova Scotia Gulf mainland landings (LeBlanc and Chaput 1991). Landings for individual Districts 2 and 3 are from the ratio of summed landings for these districts for 1964-1968, 1973, and 1977-1981.

Table 3. Reported landings (tonnes) of American eels in the southern Gulf of St. Lawrence, 1917-2005, by province and region.

Year	Gulf New Brunswick						Gulf Nova Scotia				Prince Edward Island					Total
	Bay of Chaleur	Gulf-north	Miramichi	Gulf-central	Gulf-southeast	Total	Mainland west	Mainland east	Cape Breton	Total	North shore west & central	East	South shore west & central	Total	Recreational, by trout licence-holders[a]	
1917	2.2	33.1	5.5	0.7	9.5	51.0	0.0	12.6	0.0	12.6	0.0	0.0	0.0	0.0		63.6
1918	1.4	37.6	6.5	8.2	8.1	61.8	0.0	6.8	6.3	13.1	0.0	0.0	0.0	0.0		74.9
1919	4.3	47.7	5.3	12.5	5.3	75.1	0.0	0.8	5.5	6.3	0.0	0.0	0.0	0.0		81.4
1920	1.1	9.4	9.8	2.3	1.6	24.2	0.0	2.9	7.8	10.7	0.0	0.0	0.0	0.0		34.9
1921	1.6	4.5	11.5	13.5	9.6	40.7	0.0	8.6	6.2	14.8	0.0	0.0	0.0	0.0		55.5
1922	1.2	4.5	3.6	2.3	2.4	14.0	0.0	6.9	0.6	7.5	0.0	0.0	0.0	0.0		21.5
1923	1.8	5.0	1.1	0.5	1.8	10.2	0.0	0.7	0.0	0.7	0.0	0.0	0.0	0.0		10.9
1924	1.2	2.0	0.9	4.4	1.5	10.0	0.0	7.4	0.1	7.5	0.0	0.0	0.0	0.0		17.5
1925	0.9	14.4	1.8	0.2	1.1	18.4	0.0	4.2	0.1	4.3	0.0	0.0	0.0	0.0		22.7
1926	0.3	3.0	0.0	1.0	1.1	5.4	0.0	5.7	0.0	5.7	0.0	0.0	0.0	0.0		11.1
1927	0.5	0.9	0.0	0.0	0.0	1.4	0.0	3.5	0.0	3.5	0.0	0.0	0.0	0.0		4.9
1928	1.0	4.5	10.7	0.1	0.0	16.3	0.0	6.4	0.2	6.6	0.0	0.0	0.0	0.0		22.9
1929	0.5	3.6	1.1	0.0	0.0	5.2	0.0	4.3	0.2	4.5	0.0	0.0	0.0	0.0		9.7
1930	1.0	8.9	1.9	0.0	0.0	11.8	0.0	13.1	2.1	15.2	0.0	0.0	0.0	0.0		27.0
1931	0.7	17.0	0.8	0.1	0.2	18.8	0.0	11.7	0.2	11.9	0.0	0.0	0.0	0.0		30.7
1932	0.1	6.3	0.9	0.0	1.8	9.1	0.0	13.6	0.2	13.8	0.0	0.0	0.0	0.0		22.9
1933	0.0	7.4	1.3	0.7	1.6	11.0	0.0	13.5	3.2	16.7	0.0	0.0	0.0	0.0		27.7
1934	0.0	9.4	0.6	0.8	0.5	11.3	0.0	5.2	0.6	5.8	0.0	0.0	0.0	0.0		17.1
1935	0.0	3.9	1.6	1.5	0.6	7.6	0.0	4.8	0.4	5.2	0.0	0.0	0.0	0.0		12.8
1936	0.0	1.6	1.6	0.3	0.9	4.4	0.0	3.7	0.4	4.1	0.0	0.0	0.0	0.0		8.5
1937	0.0	2.0	2.8	0.4	0.5	5.7	0.0	3.7	0.5	4.2	0.0	0.0	0.0	0.0		9.9
1938	0.0	2.3	5.7	1.2	0.2	9.4	0.1	9.6	0.0	9.7	0.0	0.0	0.0	0.0		19.1
1939	0.0	5.7	3.8	1.0	0.5	11.0	0.1	7.3	1.3	8.7	0.0	0.0	0.0	0.0		19.7
1940	0.0	0.9	2.4	1.0	0.5	4.8	0.1	9.0	1.5	10.6	0.0	0.0	0.0	0.0		15.4
1941	0.0	0.0	2.2	0.9	0.5	3.6	0.0	2.0	1.4	3.4	0.0	0.0	0.0	0.0		7.0
1942	0.0	5.1	5.4	1.5	0.5	12.5	0.0	2.7	2.1	4.8	0.0	0.0	0.0	0.0		17.3
1943	0.0	8.9	4.1	0.0	1.1	14.1	0.0	2.7	2.3	5.0	0.0	0.0	0.0	0.0		19.1
1944	0.0	3.9	5.1	3.5	1.4	13.9	0.0	5.2	1.7	6.9	0.0	0.0	0.0	0.0		20.8
1945	0.0	6.4	5.1	1.6	1.4	14.5	0.1	9.7	0.9	10.7	0.0	0.0	0.0	0.0		25.2
1946	0.0	10.1	5.8	7.5	5.7	29.1	0.0	15.2	1.5	16.7	0.0	0.0	0.0	0.0		45.8
1947	0.0	20.9	3.2	6.8	0.9	31.8	0.0	11.8	1.8	13.6	0.0	0.9	0.0	0.9		46.3
1948	0.0	17.7	2.3	4.5	4.5	29.0	0.0	7.8	0.9	8.7	0.0	10.0	0.0	10.0		47.7
1949	0.0	10.9	6.3	8.6	3.6	29.4	0.0	33.1	4.5	37.6	0.0	3.6	0.0	3.6		70.6
1950	0.0	5.4	6.8	8.2	1.8	22.2	0.0	20.0	3.6	23.6	0.0	2.3	0.0	2.3		48.1
1951	0.0	5.4	4.6	0.5	5.0	15.5	0.0	15.5	5.4	20.9	0.0	3.6	0.0	3.6		40.0
1952	0.0	7.7	1.8	2.7	3.6	15.8	0.0	9.6	2.3	11.9	0.0	5.0	0.0	5.0		32.7
1953	0.0	5.4	0.9	1.8	5.0	13.1	0.0	5.9	1.8	7.7	0.0	6.3	0.0	6.3		27.1
1954	0.0	5.4	3.2	0.9	23.6	33.1	0.0	4.6	1.8	6.4	0.0	3.7	0.0	3.7		43.2
1955	0.9	3.6	0.5	40.4	3.2	48.6	0.0	6.4	4.1	10.5	0.0	9.1	0.0	9.1		68.2
1956	0.0	3.2	0.5	2.3	4.5	10.5	0.0	14.1	0.5	14.6	0.0	4.6	0.0	4.6		29.7
1957	0.0	2.7	0.5	5.4	0.0	8.6	0.0	8.2	1.9	10.1	5.0	2.3	5.0	12.3		31.0
1958	0.0	2.7	0.0	10.9	0.9	14.5	0.0	11.8	2.3	14.1	5.9	3.2	9.6	18.7		47.3
1959	0.0	8.2	2.7	10.4	2.3	23.6	0.0	9.5	1.9	11.4	17.7	1.0	7.7	26.4		61.4
1960	0.0	10.9	2.7	14.6	2.7	30.9	0.0	16.4	7.2	23.6	14.1	3.7	14.1	31.9		86.4
1961	0.0	9.1	1.5	44.5	2.3	57.4	0.0	16.4	11.4	27.8	9.1	1.8	6.8	17.7		102.9
1962	0.0	7.3	3.7	68.6	2.3	81.9	0.5	12.3	13.6	26.4	5.4	0.0	7.7	13.1		121.4
1963	0.0	10.9	2.4	38.6	1.8	53.7	0.0	12.7	10.9	23.6	4.6	1.8	9.5	15.9		93.2
1964	0.0	18.7	4.6	30.4	2.7	56.4	0.5	12.4	5.9	18.8	14.1	2.8	17.3	34.2		109.4
1965	0.0	17.7	7.3	28.1	9.5	62.6	0.0	10.9	5.4	16.3	11.8	6.8	30.0	48.6		127.5
1966	0.5	22.3	7.8	54.1	14.5	99.2	0.0	12.3	2.7	15.0	9.5	0.0	23.3	32.8		147.0
1967	0.0	41.3	45.8	11.8	9.1	108.0	0.0	35.5	16.8	52.3	10.0	15.9	35.9	61.8		222.1
1968	0.8	36.2	65.9	20.2	27.5	150.6	0.0	23.3	5.0	28.3	51.0	27.7	52.0	130.7		309.6
1969	2.5	84.0	52.6	44.3	30.8	214.2	0.2	24.8	13.1	38.1	77.7	59.0	57.8	194.5		446.8

Table 3 (continued)

Year	Gulf New Brunswick						Gulf Nova Scotia				Prince Edward Island					Total
	Bay of Chaleur	Gulf-north	Miramichi	Gulf-central	Gulf-southeast	Total	Mainland west	Mainland east	Cape Breton	Total	North shore west & central	East	South shore west & central	Total	Recreational, by trout licence-holders[a]	
1970	3.0	135.0	42.1	96.4	18.2	294.7	0.4	35.6	9.4	45.4	90.8	62.8	86.3	239.9		580.0
1971	12.2	111.5	55.1	104.5	36.1	319.4	1.1	39.8	11.2	52.1	114.5	80.9	156.0	351.4		722.9
1972	4.0	94.9	77.3	77.6	19.0	272.8	0.0	26.7	23.6	50.3	120.6	51.2	101.0	272.8		595.9
1973	0.1	74.4	69.8	62.9	13.2	220.4	0.0	22.3	5.7	28.0	72.4	28.8	56.0	157.2	3,000	405.6
1974	0.1	67.7	38.7	33.3	16.4	156.2	0.0	24.8	3.5	28.3	40.6	22.5	38.1	101.2		285.7
1975	0.0	63.5	29.6	20.7	7.0	120.8	5.0	16.3	7.3	28.6	48.9	25.7	28.9	103.5	11,619	252.9
1976	0.0	58.0	18.2	19.0	23.5	118.7	4.9	6.8	6.3	18.0	39.5	20.6	34.0	94.1		230.8
1977	0.0	32.5	14.5	28.8	34.3	110.1	0.0	3.5	2.4	5.9	35.8	28.3	33.5	97.6		213.6
1978	1.2	33.4	22.4	15.7	8.9	81.6	0.0	5.2	7.1	12.3	53.3	31.7	28.6	113.6		207.5
1979	0.0	43.9	30.9	22.9	4.7	102.4	4.1	2.4	6.1	12.6	52.7	35.1	23.2	111.0		226.0
1980	0.0	71.9	34.1	34.1	10.3	150.4	1.9	1.0	6.6	9.5	60.0	40.8	19.3	120.1	79,100	280.0
1981	1.3	81.7	29.8	67.7	10.7	191.2	2.6	0.6	4.3	7.5	129.6	74.0	16.4	220.0		418.7
1982	0.0	31.5	24.5	84.7	18.5	159.2	1.2	1.3	8.8	11.3	104.4	42.6	20.6	167.6		338.1
1983	0.0	9.9	18.6	45.9	23.0	97.4	1.3	2.9	5.4	9.6	92.2	35.2	23.1	150.5		257.5
1984	0.0	26.2	12.2	78.5	5.5	122.4	2.2	0.0	6.7	8.9	114.0	37.7	12.9	164.6		295.9
1985	0.9	51.8	7.7	116.5	25.5	202.4	0.3	0.5	4.3	5.1	81.4	33.1	24.9	139.4	8,307	346.9
1986	1.4	16.8	16.2	106.5	89.3	230.2	3.0	2.7	9.9	15.6	117.8	34.6	73.6	226.0		471.8
1987	3.6	7.9	18.0	124.4	17.7	171.6	3.2	5.7	4.3	13.2	85.1	34.1	30.7	149.9		334.7
1988	4.2	4.9	40.6	154.2	29.6	233.5	2.7	20.3	1.7	24.7	64.9	46.4	13.4	124.7		382.9
1989	1.4	31.9	23.1	120.4	32.2	209.0	7.3	20.8	2.1	30.2	41.2	26.2	2.1	69.5		308.7
1990	0.0	32.7	42.2	54.4	20.0	149.3	0.7	18.6	1.5	20.8	92.5	28.1	3.2	123.8	2,481	293.9
1991	0.7	28.0	15.2	74.6	11.7	130.2	1.4	25.3	8.1	34.8	90.9	19.6	16.1	126.6		291.6
1992	0.0	31.3	12.4	67.5	8.4	119.6	1.3	46.1	8.6	56.0	25.4	25.3	3.3	54.0		229.6
1993	0.0	19.9	19.9	46.3	2.2	88.3	1.7	82.2	5.3	89.2	52.4	17.8	3.8	74.0		251.5
1994	0.0	17.2	13.0	35.5	2.4	68.1	2.5	31.4	8.4	42.3	32.7	9.2	3.9	45.8		156.2
1995	0.5	17.6	9.2	30.4	2.5	60.2	0.2	13.1	3.0	16.3	31.1	2.3	1.2	34.6	2,542	111.0
1996	1.4	19.0	8.3	17.1	2.5	48.7	0.0	7.2	4.2	11.4	30.6	3.8	1.5	36.0		96.1
1997	1.4	15.7	6.3	8.8	3.7	36.4	0.8	13.5	3.0	17.2	22.6	7.2	1.5	31.3		84.9
1998	0.7	20.5	9.7	14.5	3.9	49.2	0.1	10.2	4.7	15.0	16.2	5.2	2.2	23.6		87.8
1999	1.4	24.7	9.1	4.1	7.9	47.2	1.0	3.4	4.5	9.0	28.8	5.0	1.5	35.3		91.5
2000	0.9	43.5	6.8	20.0	5.1	76.4	0.0	2.1	4.7	6.9	40.6	15.2	7.6	63.5	3,000	146.7
2001	0.7	57.5	11.0	17.3	5.7	92.2	0.0	0.3	3.1	3.4	30.8	4.6	5.7	41.2		136.8
2002	0.0	59.5	16.3	47.4	5.7	129.0	0.0	1.3	2.9	4.2	48.1	31.2	7.1	86.4		219.6
2003	2.4	64.9	24.2	32.7	15.4	139.6	0.0	4.7	4.4	9.1	36.7	21.0	13.6	71.3		219.9
2004	3.2	52.3	42.2	16.2	15.4	129.3	0.0	3.0	1.3	4.4	39.5	15.0	14.5	69.0		202.6
2005	3.3	43.1	22.2	19.3	14.1	101.9	0.0	3.2	3.8	7.0	36.4	12.3	7.1	55.8		164.7

[a]Estimated numbers of retained eels, from mail-out surveys to holders of recreational trout licences. This column is not included in the PEI or southern Gulf totals. Sources: Thomson 1975; Anon. 1978, 1988, 1994, 1997b, 2003; Smith and Brickley 1985.

Table 4. Reported landings (tonnes) and landed value of eels in Gulf New Brunswick by month and gear type, 1990-2005. Data from DFO Statistics Branch unless otherwise indicated.

Year	Month												Gear			Supp.	Total	Landed	SST[b]
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Fyke	Longlines	Spears	B %[a]		value ($)	
1990	2.1	1.8	4.1	3.6	11.6	38.7	15.2	15.6	25.6	25.2	3.9	2.0	88.1	0.00	61.2	28.5	149.3	500,206	
1991	2.3	2.1	3.3	6.3	12.3	24.9	10.7	5.8	28.9	27.1	2.3	4.5	68.0	0.00	62.3	24.2	130.2	469,308	
1992	0.7	0.6	0.7	5.9	12.8	12.6	13.5	19.8	24.2	21.3	4.0	3.3	65.7	0.00	53.8	19.1	119.6	444,333	
1993	2.1	0.2	0.2	5.5	8.5	17.8	10.3	9.7	20.8	10.1	2.5	0.4	59.0	0.00	29.2	21.8	88.3	335,903	
1994	0.0	0.2	0.1	1.6	5.1	12.1	5.2	9.6	18.1	12.5	1.9	1.7	58.5	0.00	9.5	14.0	68.1	282,472	
1995	3.0	2.8	2.1	1.6	1.2	8.9	5.6	6.8	13.3	12.8	0.9	1.2	50.5	0.00	9.6	22.2	60.2	265,932	
1996	3.2	3.7	0.3	0.0	3.2	5.4	7.6	11.3	8.6	4.7	0.3	0.4	41.0	0.00	7.7	21.0	48.7	244,549	
1997	0.4	0.0	0.0	0.1	3.6	4.1	4.6	9.4	7.7	2.3	1.9	2.3	34.5	0.00	1.9	17.8	36.4	201,489	
1998	0.0	0.0	0.0	0.3	2.0	4.5	5.0	11.4	17.3	8.6	0.0	0.0	46.6	0.00	2.6	10.9	49.2	270,658	
1999	3.0	0.7	0.3	0.9	4.7	4.1	7.3	9.2	9.8	4.3	0.0	2.7	38.3	0.00	8.9	32.2	47.2	241,822	
2000	1.1	1.1	0.2	4.4	12.7	8.4	12.4	9.0	15.8	10.1	0.5	0.5	70.0	0.00	6.4	16.0	76.4	320,265	55.8
2001	0.8	0.2	0.2	3.6	17.2	6.1	15.6	13.9	21.6	12.1	0.5	0.5	79.5	0.02	12.6	14.5	92.2	411,698	64.8
2002	0.1	0.1	0.0	2.7	19.3	12.3	18.3	19.8	27.4	18.5	6.3	4.1	107.2	0.00	21.8	19.9	129.0	528,603	68.8
2003	0.9	0.9	0.5	2.0	17.4	19.8	20.5	19.1	27.9	22.8	4.5	3.2	137.3	0.00	2.3	12.7	139.6	592,747	90.7
2004	1.6	0.5	0.0	0.6	17.4	8.7	14.7	24.9	43.5	9.9	4.5	3.1	127.2	0.00	2.0	9.5	129.3	637,337	89.8
2005	3.0	0.0	0.0	1.6	15.9	11.2	4.9	19.0	32.0	10.9	0.1	3.4	98.9	0.00	3.0	12.7	101.9	575,228	
Mean	1.5	0.9	0.7	2.5	10.3	12.5	10.7	13.4	21.4	13.3	2.1	2.1	73.2	0.00	18.4	18.6	91.6	395,159	
Mean %	1.7	1.0	0.8	2.8	11.3	13.6	11.7	14.6	23.4	14.6	2.3	2.3	79.9	0.00	20.1				

[a]Percent of landings recorded as Supplementary B (landings without purchase slips, as estimated by field staff)

[b]From purchase records of South Shore Trading Company, Port Elgin, NB, for 2000-2004.

Table 5. Reported landings (tonnes) and landed value of eels in Gulf Nova Scotia by month and gear type, 1990-2005.

Year	Month												Gear				Supp.	Total	Landed
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Fyke	Pots	Weirs	Spears	B %[a]		value ($)
1990	4.8	1.9	0.0	0.0	0.3	1.3	0.2	0.0	2.5	6.3	3.5	0.0	10.7	0.0	0.0	10.0	86.0	20.8	64,841
1991	9.8	2.3	0.0	0.0	2.3	3.3	1.3	1.1	0.8	7.9	5.0	1.0	21.7	0.0	0.0	12.9	97.2	34.8	121,161
1992	16.9	3.7	6.2	2.6	2.3	6.4	4.3	0.5	2.4	5.5	0.9	4.2	13.6	0.0	0.0	42.3	97.2	56.0	231,046
1993	27.8	2.9	8.2	3.9	7.3	20.7	7.1	2.7	3.5	1.6	1.4	2.1	23.1	0.0	0.0	66.1	41.1	89.2	379,665
1994	5.8	6.2	1.0	0.7	1.2	8.2	4.3	2.6	4.2	6.3	0.8	0.8	12.0	1.9	0.0	28.1	35.6	42.3	168,371
1995	0.8	0.8	0.5	1.0	4.5	4.7	0.0	0.3	0.0	2.5	1.0	0.2	3.1	0.4	0.0	12.8	40.8	16.3	75,666
1996	0.3	0.5	0.0	0.0	1.9	4.5	0.1	0.0	0.5	3.2	0.5	0.0	4.2	0.0	0.0	7.2	45.2	11.4	73,920
1997	3.7	3.2	0.9	0.6	1.0	3.4	0.5	0.3	1.9	1.8	0.0	0.0	2.1	0.0	0.0	15.2	70.8	17.2	87,361
1998	2.0	1.5	0.0	0.0	0.4	0.7	0.0	0.9	6.5	2.9	0.1	0.0	10.3	0.2	0.1	4.5	44.1	15.0	74,523
1999	0.8	0.4	0.0	0.3	0.1	0.1	0.0	0.5	3.0	3.7	0.0	0.0	7.4	0.0	0.0	1.6	57.6	9.0	43,500
2000	0.6	0.5	0.0	0.1	0.0	0.1	0.0	0.0	3.8	1.7	0.1	0.0	5.7	0.0	0.0	1.2	57.7	6.9	27,730
2001	0.2	0.2	0.0	0.0	0.0	0.1	0.0	0.0	1.7	1.2	0.0	0.0	2.9	0.0	0.0	0.5	100.0	3.4	14,952
2002	0.6	0.5	0.2	0.0	0.0	0.0	0.0	0.0	1.7	1.1	0.0	0.0	3.3	0.0	0.0	0.9	100.0	4.2	26,995
2003	3.8	1.5	1.0	0.0	0.0	0.0	0.0	0.0	1.2	1.5	0.0	0.0	2.7	0.0	0.0	6.3	100.0	9.1	53,001
2004	1.2	1.1	0.1	0.2	0.0	0.1	0.0	0.0	0.9	0.8	0.0	0.0	1.4	0.0	0.2	2.7	94.8	4.4	19,185
2005	1.1	0.9	0.4	0.0	0.0	0.1	0.0	0.0	3.3	1.1	0.0	0.0	4.4	0.0	0.0	2.6	100.0	7.0	30,830
Mean	5.0	1.8	1.2	0.6	1.3	3.4	1.1	0.6	2.4	3.1	0.8	0.5	8.0	0.2	0.0	13.4	73.0	21.7	93,297
Mean %	23.1	8.1	5.4	2.7	6.1	15.5	5.1	2.6	10.9	14.1	3.8	2.4	37.1	0.7	0.1	62.1			

[a]Percent of landings recorded as Supplementary B (landings without purchase slips, as estimated by field staff)

Table 6. Reported landings (tonnes) and landed value of eels on Prince Edward Island by month and gear type, 1990-2005. Data from DFO Statistics Branch unless otherwise indicated. Data for 2005 are preliminary.

Year	Month												Gear		Supp. B %[a]	Total	Landed value ($)	SST[b]	Recreational, by trout licence-holders	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Fyke	Spears					Numbers[c]	Tonnes[d]
1990	0.3	0.0	0.0	0.6	13.6	21.8	10.6	20.0	27.1	22.5	5.4	1.8	117.3	6.4	7.2	123.8	390,258		2,481	1.20
1991	0.1	0.1	0.0	0.0	42.7	29.3	5.8	18.9	24.2	5.1	0.2	0.2	17.5	109.2	35.7	126.6	426,181			
1992	0.0	0.0	0.0	0.0	1.4	0.2	10.3	7.6	18.7	15.8	0.0	0.0	41.9	12.0	31.2	54.0	182,371			
1993	0.0	0.0	0.0	0.0	6.1	20.4	4.1	5.3	12.4	23.2	2.2	0.2	33.8	40.1	27.3	74.0	246,170			
1994	1.7	0.6	0.0	1.4	2.8	8.7	0.0	3.5	15.0	8.5	3.1	0.3	20.9	24.9	11.1	45.8	220,056			
1995	0.2	0.1	0.0	0.2	3.6	10.2	0.0	5.4	9.9	2.6	1.8	0.5	31.0	3.6	6.2	34.6	202,434		2,542	1.23
1996	0.5	0.2	0.0	0.7	4.6	3.8	0.0	4.7	11.5	9.0	0.6	0.4	23.0	13.0	6.7	36.0	224,016			
1997	1.7	1.5	1.0	0.0	3.5	9.7	2.0	2.4	6.7	1.9	0.6	0.4	12.4	18.9	19.0	31.3	185,074			
1998	2.3	2.1	1.3	0.0	3.4	0.0	0.0	5.3	6.8	2.3	0.0	0.0	14.1	9.5	24.4	23.6	114,719			
1999	2.3	2.1	1.2	0.0	0.0	0.0	0.0	5.1	17.1	7.6	0.0	0.0	29.5	5.8	15.8	35.3	180,224			
2000	2.2	1.9	1.1	0.0	0.0	0.0	0.0	12.9	27.9	17.5	0.0	0.0	58.3	5.2	8.2	63.5	276,560	57.9	3,000	1.64
2001	0.5	0.9	0.6	0.0	0.0	0.0	0.0	12.9	17.9	8.4	0.0	0.0	39.2	2.0	4.9	41.2	151,290	45.3		
2002	0.5	0.9	0.6	0.0	0.0	0.1	0.0	20.2	38.6	25.4	0.1	0.0	84.4	2.0	2.4	86.4	296,584	73.4		
2003	0.5	0.9	0.6	0.0	0.0	0.0	0.0	20.6	28.6	20.1	0.0	0.0	69.2	2.0	2.9	71.3	269,814	56.6		
2004	0.9	0.8	0.6	0.0	0.0	0.0	0.0	16.5	36.9	11.4	1.9	0.0	66.7	2.3	3.3	69.0	306,354	75.0		
2005	0.0	0.0	0.0	0.0	0.0	2.4	0.0	7.1	27.0	19.2	0.0	0.0	53.4	2.4		55.8	262,441			
Mean	0.8	0.7	0.4	0.2	5.1	6.5	2.0	9.0	16.4	10.6	0.9	0.2	37.0	15.9	12.7	53.0	210,359			
Mean %	1.5	1.3	0.8	0.3	9.6	12.3	3.9	17.1	31.0	20.0	1.7	0.4	69.9	30.1						

[a]Percent of landings recorded as Supplementary B (landings without purchase slips, as estimated by field staff).

[b]From purchase records of South Shore Trading Company, Port Elgin, NB, for 2000-2004.

[c]Estimated numbers of retained eels, from mail-out surveys to holders of recreational trout licences. Data for 2000 are preliminary. Sources: Thompson 1975; Anon. 1997a, 2003.

[d]Estimated number of retained eels converted to tonnes, based on mean weights of eels above the minimum legal size, sampled from commerical and research fyke nets on Prince Edward Island. For 1990 and 1995: legal minimum 46 cm, mean = 483.9 g, SD = 300.1, N = 2,447. For 2000, legal minimum 50.8 cm, mean = 545.7 g, SD = 295.3, N = 2,015.

Table 7. Catch per unit effort in the Gulf Nova Scotia fyke net fishery for eels, 1997-1998 and 2000-2005, by county, from commercial fisher logbooks.

Year	Cumberland			Pictou			Inverness			All counties		
	Landings (kg)	Gear-days	CPUE (kg/ gear-day)	Landings (kg)	Gear-days	CPUE (kg/ gear-day)	Landings (kg)	Gear-days	CPUE (kg/ gear-day)	Landings (kg)	Gear-days	CPUE (kg/ gear-day)
1997							2,445	1,414	1.729	2,445	1,414	1.729
1998	36.3	28	1.296				1,629	1,757	0.927	1,666	1,785	0.933
2000							1,662	1,350	1.231	1,662	1,350	1.231
2001							1,883	1,400	1.345	1,883	1,400	1.345
2002				52.2	42	1.242	2,758	1,570	1.757	2,810	1,612	1.743
2003				396.9	294	1.350	2,082	1,605	1.297	2,479	1,899	1.306
2004				474.0	266	1.782	681	211	3.229	1,155	477	2.422
2005				352.8	752	0.469	218	244	0.895	571	996	0.573
Mean	36.3	28.0	1.296	319.0	338.5	0.942	1,670	1,194	1.399	1,834	1,367	1.342

Table 8. Catch per unit effort in the pot and weir fishery for eels in Inverness County, Gulf Nova Scotia, 1997-1998, 2000, and 2003-2005, from commercial fisher logbooks.

Year	Pots			Weirs		
	Landings (kg)	Gear-days	CPUE (kg/ gear-day)	Landings (kg)	Gear-days	CPUE (kg/ gear-day)
1997	14	16	0.850			
1998	125	330	0.378	365	54	6.762
2000				266	35	7.594
2003				216	31	6.965
2004				244	39	6.246
2005				2,116	59	35.872
Mean	69	173	0.400	641	44	14.711

Table 9. Catch per unit effort in the Gulf Nova Scotia commercial spear fishery for eels, 1997-1998, and 2000-2005, by county, from fisher logbooks.

Year	Pictou			Antigonish			All counties		
	Landings (kg)	Spear-hours	CPUE (kg/ spear-hr)	Landings (kg)	Spear-hours	CPUE (kg/ spear-hr)	Landings (kg)	Spear-hours	CPUE (kg/ spear-hr)
Winter spearing									
1997	147.4	58	2.542	2,886	1,245	2.318	3,034	1,303	2.328
1998				1,526	463	3.296	1,526	463	3.296
2000				191	106	1.806	191	106	1.806
2001				99	90	1.096	99	90	1.096
2002	232.7	81	2.873	235	66	3.553	467	147	3.178
2003	739.4	192	3.851	1,118	447	2.504	1,857	639	2.909
2004	201.8	46	4.435	830	257	3.228	1,031	303	3.410
2005	376.0	95	3.958	2,210	363	6.087	2,586	458	5.646
Mean	339.5	94	3.600	1,137	380	2.995	1,349	439	3.076
Summer spearing									
1997	216.8	86	2.536	2101[a]	536[a]	3.921	2,318	622	3.730
1998				902	241	3.742	902	241	3.742
2000				245	80	3.067	245	80	3.067
2001	61.2	14	4.374	124	102		185	116	1.595
2002				26	12		26	12	2.192
2003				47	49		47	49	0.963
2005				442	59		442	59	7.495
Mean	139.0	49.8	2.794	298	91	3.290	595	168	3.535

[a]Includes some data from Pictou County.

Table 10
Effort and landings in the Gulf Nova Scotia fyke, pot, and weir fisheries for eels, from telephone survey of respondants who fished commercially in 2001.

County[a]	Number holding licences for any eel gear	Licence holders interviewed		Number holding licences for the particular gear	Licence-holders who fished eels with the gear				Mean timing of gear deployment					Gears per active fisher			Gear-days per active fisher			Landings per active fisher (kg)			Catch per unit effort (kg/gear-day)		Total landings (kg) from the gear sector[e]		
		No.	%		Survey respondents			All licencees (estimated)	Placement	Removal	Days in water															Survey respondents	All licencees (estimated)	Statistics Branch data
					No.	%	N[d]				Mean	SD	N[d]	Mean	SD	N[d]	Mean	SD	N[d]	Mean	SD	N[d]	Mean	N[d]			
Fyke																											
Cumberland /Colchester	24	24	100.0	7	0	0.0	7	0.0	N/A	N/A	0.0	0.0	0	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
Pictou	42	36	85.7	10	0	0.0	9	0.0	N/A	N/A	0.0	0.0	0	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
Antigonish[b]	48	39	81.3	25	0	0.0	20	0.0	N/A	N/A	0.0	0.0	0	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	116
Inverness[c]	32	25	78.1	8	2	28.6	7	2.3	3 Sep	30 Oct	57.0	1.4	2	15.5	13.4	2	893	788	2	1,520	738	2	1.70	2	3,039	3,473	2,767
Total	146	124	84.9	50	2	4.7	43	2.3	3 Sep	30 Oct	57.0	1.4	2	15.5	13.4	2	893	788	2	1,520	738	2	1.70	2	3,039	3,534	2,946
Pot																											
Cumberland /Colchester	24	24	100.0	22	0	0	22	0	N/A	N/A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pictou	42	36	85.7	22	0	0	20	0	N/A	N/A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Antigonish[b]	48	39	81.3	12	0	0	10	0	N/A	N/A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Inverness[c]	32	25	78.1	11	0	0	10	0	N/A	N/A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	146	124	84.9	67	0	0	62	0	N/A	N/A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Weir																											
Cumberland /Colchester	24	24	100.0	0	0	0	0	0	N/A	N/A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pictou	42	36	85.7	0	0	0	0	0	N/A	N/A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Antigonish[b]	48	39	81.3	0	0	0	0	0	N/A	N/A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Inverness[c]	32	25	78.1	18	3	25	12	4.5	21 Nov	10 Dec	19.33	23.3	3	1	0	3	19.33	23.3	3	95.06	27.8	3	12.01	3	285.2	427.8	0
Total	146	124	84.9	18	3	25	12	4.5	21 Nov	10 Dec	19.33	23.3	3	1	0	3	19.33	23.3	3	95.06	27.8	3	12.01	3	285.2	427.8	0

[a]County break-downs in this table are by fishing location if the fisher is active, otherwise by home address
[b]Includes one licence holder from Guysborough County
[c]Includes two licence holders from Victoria County
[d]Number of licence-holders who answered the question
[e]One weir fisher reported landings as number of eels. Numbers were converted to weight assuming a mean weight of 581 g. This is the mean weight of legal-size eels sampled in Merigomish Bay in fall 2001, based on the length-weight conversion formula (Fig. 10).

Table 11. Effort and landings in the Gulf Nova Scotia eel spear fishery in winter and summer 2001, from telephone survey respondents who fished commercially in 2001.

County[a]	Number of eel licence-holders	Licence holders interviewed		Number of spear licence-holders	Licence-holders who speared eels in the season				Mean number of days fishers speared eels in the season			Landings per active fisher (kg)			Catch per unit effort (kg/gear-day)		Total spear landings (kg) for the season		
		No.	%		Survey respondents			All licencees (estimated)	Mean	SD	N[d]	Mean	SD	N[d]	Mean	N[d]	Survey respondents	All licencees (estimated)	Statistics Branch data
					No.	%	N[d]												
Winter																			
Colchester/ Cumberland	24	24	100.0	2	0	0.0	2	0.0	0.0	0.0	0	0	0.0	0	0.0	0	0	0	0
Pictou	42	36	85.7	14	0	0.0	11	0.0	0.0	0.0	0	0	0.0	0	0.0	0	0	0	0
Antigonish[b]	48	39	81.3	24	3	16.7	18	4.0	10.3	0.6	3	106	104.8	3	10.4	3	318	423	102
Inverness[c]	32	25	78.1	0	0	0.0	0	0.0	0.0	0.0	0	0	0.0	0	0.0	0	0	0	324
Total	146	124	84.9	40	3	9.7	31	3.9	10.3	0.6	0	106	104.8	3	10.4	3	318	423	426
Summer																			
Colchester/ Cumberland	24	24	100.0	2	0	0.0	2	0.0	0.0	0.0	0	0	0.0	0	0.0	0	0	0	0
Pictou	42	36	85.7	14	1	9.1	11	1.3	3.0	0.0	1	54	0.0	1	18.1	1	54	69	0
Antigonish[b]	48	39	81.3	24	0	0.0	18	0.0	0.0	0.0	0	0	0.0	0	0.0	0	0	0	33
Inverness[c]	32	25	78.1	0	0	0.0	0	0.0	0.0	0.0	0	0	0.0	0	0.0	0	0	0	0
Total	146	124	84.9	40	1	3.2	31	1.3	3.0	0.0	1	54	0.0	1	18.1	1	54	69	33

[a]County break-downs in this table are by fishing location if the fisher is active, otherwise by home address

[b]Includes one licence holder from Guysborough County

[c]Includes two licence holders from Victoria County

[d]Number of licence-holders who answered the question

Table 12. Changes in abundance of legal and undersized eels in Gulf Nova Scotia according to fishers interviewed by telephone in fall 2001.

Question	County	Number of respondents giving each answer						
		1 Much less abundant	*2* Somewhat less abundant	*3* About the same	*4* Somewhat more abundant	*5* Much more abundant	Total	Mean[c] score
Eel abundance now compared to 1980s								
	Cumberland/Colchester	0	0	0	0	0	0	
	Pictou	0	0	0	0	0	0	
	Antigonish[a]	2	2	0	0	0	4	1.5
	Inverness[b]	0	1	2	0	0	3	2.7
	Total	2	3	2	0	0	7	2.0
Eel abundance now compared to the past several years								
	Cumberland/Colchester	0	0	0	0	0	0	
	Pictou	0	0	0	2	0	2	4.0
	Antigonish[a]	1	1	1	2	0	5	2.8
	Inverness[b]	1	1	1	1	0	4	2.5
	Total	2	2	2	5	0	11	2.9
Abundance of undersized eels now compared to past several years								
	Cumberland/Colchester	0	0	0	0	0	0	
	Pictou	0	0	0	0	1	1	5.0
	Antigonish[a]	0	0	1	1	3	5	4.4
	Inverness[b]	2	0	1	0	1	4	2.5
	Total	2	0	2	1	5	10	3.7

[a]Includes one licence holder from Guysborough County

[b]Includes two licence holders from Victoria County

[c]Based on score codes of 1 to 5, shown in italics in the header of this table.

Table 13. Catch rates of legal and sublegal eels in fyke nets on Prince Edward Island, as reported by logbook fishers. Adjusted catch rates are adjusted to a minimum size of 53.0 cm.

Year	Number of log-keepers	Number of fishing sites	Number of net-days	Minimum legal size (cm)	Legal eels				Sublegal eels			
					Catch (kg)	Adjustment factor[a]	kg caught/net-day		Catch (no. of eels)	Adjustment factor[b]	No. eels caught/net-day	
							Unadjusted	Adjusted			Unadjusted	Adjusted
1996	7	18	9,996	46.0	3,768	0.774	0.377	0.292	7,230	1.440	0.723	1.042
1997	7	15	10,513	46.0	3,589	0.774	0.341	0.264	15,174	1.440	1.443	2.078
1998	5	12	6,985	50.8	3,542	0.923	0.517	0.477	17,567	1.086	2.515	2.731
1999	4	11	9,019	50.8	8,327	0.923	0.923	0.852	36,450	1.086	4.041	4.389
2000	3	10	6,192	50.8	5,646	0.923	0.912	0.842	12,240	1.086	1.977	2.147
2001	6	14	8,497	50.8	5,436	0.923	0.640	0.590	9,731	1.086	1.145	1.244
2002	6	16	9,852	50.8	7,554	0.923	0.767	0.708	13,152	1.086	1.434	1.557
2003	7	17	9,792	50.8	8,526	0.923	0.871	0.804	15,918	1.086	1.626	1.765
2004	5	12	7,832	50.8	9,026	0.923	1.153	1.064	15,977	1.086	2.059	2.236
2005	4	11	7,941	53.0	7,507	1.000	0.945	0.945	15,844	1.000	1.995	1.995
2006	3	9	5,728	53.0	4,714	1.000	0.823	0.823	7,399	1.000	1.292	1.292

[a]Based on measurements and weights of 1,249 commercially caught eels on PEI, 1997-2002. Summed weight of eels between 50.9 cm and 52.9 cm was 7.7% of the summed weight of eels that were >= 50.8 cm. Summed weight of eels between 46.0 cm and 52.9 cm was 22.6% of the summed weight of eels that were >= 46.0 cm.

[b]Based on measurements of 2,748 commercially caught eels on PEI, 1997-2002. Number of eels between 50.9 cm and 52.9 cm was 8.6% of the number of eels that were under 50.8 cm. Number of eels between 46.0 cm and 52.9 cm was 44.0% of the number of eels that were under 46.0 cm.

Table 14. Effort and landings in the Prince Edward Island eel fyke net fishery, from telephone surveys conducted in 1998 and 2000.

Survey year	County[a]	Number of licence-holders	Licence holders interviewed		Licence-holders who fyke netted eels				Mean timing of gear deployment					Fyke nets per active fisher			Gear-days per per active fisher			Landings per per active fisher (kg)			Catch per unit effort (kg/fyke net day)			Total landings (tonnes)		
					Survey respondents			All licences (estimated)	Placement	Removal	Days in water															Phone-out survey		Statistics Branch data
			No.	%	No.	%	N[bc]				Mean	SD	N[b]	Mean	SD	N[b]	Mean	SD	N[b]	Mean	SD	N[b]	Mean	SD	N[b]	Respondents	All licences (estimated)	
1998	Prince	142	86	60.6	26	25.7	101	36.6	19 Aug	8 Oct	51.9	13.9	21	21.8	10.1	22	1,141	518	21	452	285	16	0.38	0.19	16	7.2	16.5	
1998	Queens	33	27	81.8	12	40.0	30	13.2	19 Aug	11 Oct	55.8	18.5	12	24.0	11.6	12	1,341	867	12	454	518	11	0.32	0.28	11	5.4	6.0	
1998	Kings	73	45	61.6	17	34.7	49	25.3	16 Aug	14 Oct	61.0	9.3	14	22.3	8.7	14	1,349	498	14	699	445	8	0.48	0.28	8	5.6	17.7	
1998	Total	248	158	63.7	55	30.6	180	75.8	18 Aug	10 Oct	55.6	14.3	47	22.5	9.9	48	1,254	614	47	507	412	35	0.38	0.24	35	18.3	38.4	13.3
2000	Prince	137	131	95.6	41	31.3	131	42.9	18 Aug	6 Oct	49.3	13.7	41	23.3	10.8	41	1,176	653	41	733	575	36	0.85	1.01	36	26.4	31.4	
2000	Queens	32	31	96.9	10	32.3	31	10.3	16 Aug	3 Oct	48.0	20.8	10	32.5	15.5	10	1,749	1,094	10	828	525	9	0.49	0.17	9	8.4	8.6	
2000	Kings	70	63	90.0	16	25.0	64	17.5	18 Aug	11 Oct	54.1	12.1	15	25.5	11.5	15	1,400	715	15	1,669	1,306	12	1.58	1.30	12	20.0	29.2	
2000	Total	239	225	94.1	67	29.6	226	70.9	18 Aug	7 Oct	50.2	14.6	66	25.2	12.0	66	1,313	762	66	945	846	57	0.95	1.05	57	54.8	67.0	55.6

[a]County break-downs in this table are by fishing location if the fisher is active, otherwise by home address

[b]Number of licence-holders who answered the question

[c]For 1998, N includes fishers who did not pick up their net-tags. These fishers were assumed not to have fished and were not contacted for interviews.

Table 15. Changes in abundance of legal and undersized eels on Prince Edward Island according to Prince Edward Island fyke net fishers interviewed by phone in fall 1998 and fall 2000.

Question	Survey year	County	Number of respondents giving each answer						
			1 Much less abun-dant	*2* Some-what less abun-dant	*3* About the same	*4* Some-what more abun-dant	*5* Much more abun-dant	Total	Mean[a] score
Eel abundance now compared to 1980s									
	1998	Prince	10	4	0	0	0	14	1.3
	1998	Queens	5	2	2	1	0	10	1.9
	1998	Kings	6	0	0	2	0	8	1.8
	1998	Total	21	6	2	3	0	32	1.6
	2000	Prince	9	13	0	3	2	27	2.1
	2000	Queens	3	2	0	2	1	8	2.5
	2000	Kings	2	2	3	1	0	8	2.4
	2000	Total	14	17	3	6	3	43	2.2
Eel abundance now compared to the past several years									
	1998	Prince	1	0	7	13	0	21	3.5
	1998	Queens	0	2	4	5	0	11	3.3
	1998	Kings	1	5	4	3	1	14	2.9
	1998	Total	2	7	15	21	1	46	3.3
	2000	Prince	3	3	9	15	8	38	3.6
	2000	Queens	0	1	2	4	2	9	3.8
	2000	Kings	1	1	3	7	2	14	3.6
	2000	Total	4	5	14	26	12	61	3.6
Abundance of undersized eels now compared to past several years									
	1998	Prince	0	0	1	9	10	20	4.5
	1998	Queens	1	0	1	2	7	11	4.3
	1998	Kings	0	2	2	4	6	14	4.0
	1998	Total	1	2	4	15	23	45	4.3
	2000	Prince	1	3	10	10	14	38	3.9
	2000	Queens	0	0	3	2	4	9	4.1
	2000	Kings	1	1	1	6	5	14	3.9
	2000	Total	2	4	14	18	23	61	3.9

[a]Based on score codes of 1 to 5, shown in italics in the header of this table.

Table 16. Catch rates of eels in directed research fishing in the southern Gulf of St. Lawrence

Habitat	Province	Location	Salinity[a]	Year	Fishing dates	Gear type	Number of gear-days[b]	Eels caught: Number of eels <53 cm	Eels caught: Number of eels >=53 cm	Eels caught: Total number of eels[c]	Eels caught: Weight of eels >=53 cm (kg)	Eels caught: Weight of all eels (kg)	Catch per unit effort[d]: Number of eels <53 cm/ gear-day	Catch per unit effort[d]: Number of eels >=53 cm/ gear-day	Catch per unit effort[d]: Total number of eels/ gear-day	Catch per unit effort[d]: Weight of eels >=53 cm/ gear-day	Catch per unit effort[d]: Weight of all eels (kg)/ gear-day	Source[e]
Bays, estuaries, tidal lagoons																		
	NB	Kouchibouguac Estuary[f]	S	99-00	Jun-Oct	Fyke	23			15					0.652			J-H
	NB	Kouchibouguac Estuary[g]	S	99-00	Jun-Oct	Fyke	21			1					0.048			J-H
	NB	Little Shemogue Harbour	S	2002	25 Jun-31 Jul	Fyke	137	1	8	9	6.1	6.3	0.007	0.058	0.066	0.044	0.046	
	NB	Cape Jourimain South Marsh	S	2002	4-23 Jun	Fyke	37	0	0	0	0.0	0.0	0.000	0.000	0.000	0.000	0.000	
	NS	Merigomish Bay	S	1981	10-12 Aug	Pot	20			46					2.300			H
	NS	Merigomish Bay	S	2001	20 Sep-25 Oct	Fyke[h]	208	25	32	97	18.6	21.6	0.205	0.262	0.466	0.152	0.177	
	NS	Pomquet Harbour	S	1981	12-13 Aug	Pot	11			40					3.636			H
	NS	Margaree Harbour	S	1981	13-14 Aug	Pot	12			17					1.417			H
	PEI	Cavendish, New London Bay	S	2001	May-Aug	Fyke	146			25					0.171			
	PEI	Brackley Bay	S	2001	May-Aug	Fyke	144			1					0.007			
	PEI	Brackley Bay	S	2003	21 Jul-1 Aug	Fyke	46	7	25	32	15.3	16.5	0.152	0.543	0.696	0.332	0.358	
	PEI	Covehead Bay	S	2003	16 Jun-9 Jul	Fyke	52	32	26	31	13.1	17.4	0.329	0.267	0.596	0.135	0.179	
	PEI	Diligent Pond	S	2001	26 Sep-12 Oct	Fyke	149	23	8	31	4.7	7.2	0.154	0.054	0.208	0.031	0.048	
	PEI	Basin Head Lagoon	B	2001	4 Jun-5 Sep	Fyke	20	168	54	288	30.4	52.7	10.897	3.503	14.400	1.971	3.416	
	PEI	Basin Head Lagoon	B	2002	3-16 Sep	Fyke	63	109	38	149	16.3	31.4	1.754	0.611	2.365	0.262	0.506	
	PEI	Basin Head Lagoon	B	2004	8 Jul-25 Aug	Fyke	251	113	113	214	55.3	72.1	0.426	0.426	0.853	0.209	0.272	
	PEI	Basin Head Lagoon	B	2005	25 May-20 Jun	Fyke	286	28	54	111	25.0	29.3	0.133	0.256	0.388	0.118	0.139	
	PEI	Boughton Estuary	B	1999	May-Jun	Fyke	154	293	31	324	11.0	44.3	1.903	0.201	2.104	0.072	0.287	
	PEI	Flat River Estuary	S	2002	4 Jul-25 Aug	Fyke	253	57	69	124	37.8	46.8	0.222	0.268	0.490	0.147	0.182	
	PEI	Flat River Estuary	S	2005	15-29 Jul	Fyke	55	1	2	2	0.6	0.7	0.012	0.024	0.036	0.008	0.009	
	PEI	Gascoigne Cove	S	2002	3 Jul-25 Aug	Fyke	118	118	0	20	20.0	0.0	0.169	0.000	0.169	0.029	0.000	
	PEI	South Pinette Estuary	S	2000	24 Jul-30 Nov	Fyke	442	168	140	308	65.5	88.8	0.380	0.317	0.697	0.148	0.201	
	PEI	South Pinette Estuary	S	2001	22 May-11 Jul	Fyke	193	0	2	2	1.3	1.3	0.000	0.010	0.010	0.007	0.007	
	PEI	Middle Pinette Estuary	S	2000	24-29 Jul	Fyke	14	8	9	17	4.9	6.5	0.571	0.643	1.214	0.351	0.463	
	PEI	North Pinette Estuary	S	2000	6 Aug-20 Nov	Fyke	288	146	85	224	47.3	67.4	0.492	0.286	0.778	0.159	0.227	
	PEI	North Pinette Estuary	S	2001	30 Apr-17 Jul	Fyke	697	34	28	65	13.4	18.0	0.051	0.042	0.093	0.020	0.027	
	PEI	North Pinette Estuary	S	2002	15 May-4 Jun	Fyke	54	1	0	1	0.0	0.1	0.019	0.000	0.019	0.000	0.001	
	PEI	Newtown River Estuary	S	2002	5-14 Jun	Fyke	38	4	0	4	0.0	0.5	0.105	0.000	0.105	0.000	0.013	
		Sum/mean				Fyke	3,889	1,336	724	2,095	387	529	0.349	0.189	0.539	0.101	0.138	
		Sum/mean				Pot	43			103					2.395			
Salt marsh pools																		
	PEI	Cavendish Marsh	S	2001	May-Aug	Pot	219			0			0.000	0.000	0.000	0.000	0.000	
	PEI	Youngs Marsh	S	2001	26 Jun-16 Jul	Pot	40			0			0.000	0.000	0.000	0.000	0.000	
		Sum/mean	S	2001		Pot	259			0					0.000			
Salt marsh creeks																		
	PEI	Youngs Marsh	S	2001	27 Jun-16 Jul	Pot	19			0			0.000	0.000	0.000	0.000	0.000	
	PEI	Cavendish Marsh	S	2001	May-Aug	Pot	438			11					0.025			
	PEI	Brackley Marsh	S	2001	May-Aug	Pot	432			6					0.014			
		Sum/mean	S	2001		Pot	889			17					0.019			
Lakes																		
	NS	Black Lake, Cumberland Co	F	1981	17-18 Aug	Pot	12			2					0.167			H
	NS	Lake Ainslie	F	1979	Summer	Pot	140			18					0.129			HT
	NS	Lake Ainslie	F	1981	14-15 Aug	Pot	11			7					0.636			H
		Sum/mean	F			Pot	163			27					0.166			

Table 16 (continued)

Habitat	Province	Location	Salinity[a]	Year	Fishing dates	Gear type	Number of gear-days[b]	Eels caught: Number of eels <53 cm	Eels caught: Number of eels >=53 cm	Eels caught: Total number of eels[c]	Eels caught: Weight of eels >=53 cm (kg)	Eels caught: Weight of all eels (kg)	Catch per unit effort[d]: Number of eels <53 cm/ gear-day	Catch per unit effort[d]: Number of eels >=53 cm/ gear-day	Catch per unit effort[d]: Total number of eels/ gear-day	Catch per unit effort[d]: Weight of eels >=53 cm/ gear-day	Catch per unit effort[d]: Weight of all eels (kg)/ gear-day	Source[e]
Barachois ponds with an outlet stream to the sea																		
	PEI	Clarkes Pond	F	1999	17 May-4 Jun, 5 Jul-30 Jul	Fyke	172	109	260	369	151.6	165.3	0.634	1.512	2.145	0.882	0.961	
	PEI	Clarkes Pond	F	2000	9 May-15 Jun, 14 Jul-29 Aug	Fyke	318	165	252	421	156.7	180.8	0.524	0.800	1.324	0.498	0.574	
	PEI	Clarkes Pond	F	2001	11 May-10 Aug	Fyke	182	27	24	71	12.1	16.4	0.207	0.184	0.390	0.092	0.125	
	PEI	Lake of Shining Waters	F	1999	17 May-4 Jun, 5 Jul-30 Jul	Fyke	172	28	89	118	40.2	43.9	0.164	0.522	0.686	0.236	0.257	
	PEI	Lake of Shining Waters	F	2000	9 May-15 Jun, 14 Jul-29 Aug	Fyke	410	33	49	81	23.2	27.6	0.080	0.118	0.198	0.056	0.066	
	PEI	Rollings Pond	F	1999	17 May-4 Jun, 5-12 Jul	Fyke	25	122	249	371	107.4	125.5	4.880	9.960	14.840	4.297	5.021	
	PEI	Rollings Pond	F	2000	9 May-15 Jun, 14 Jul-29 Aug	Fyke	229	204	228	426	109.9	140.8	0.878	0.982	1.860	0.473	0.606	
	PEI	Rollings Pond	F	2001	9 May-10 Aug	Fyke	186	18	50	86	25.0	27.7	0.122	0.340	0.462	0.170	0.188	
	PEI	Long Pond, Dalvay	F	1999	7-30 Jun, 2-20 Aug	Fyke	146	56	237	293	110.2	119.6	0.384	1.623	2.007	0.755	0.819	
	PEI	Lond Pond, Dalvay	F	2000	24 May-18 Aug	Fyke	386	368	364	747	175.0	216.7	0.973	0.962	1.935	0.463	0.573	
	PEI	Long Pond, Dalvay	F	2001	14 Aug-13 Sep	Fyke	86	6	41	47	23.6	25.0	0.070	0.477	0.547	0.274	0.291	
	PEI	Long Pond, Dalvay	F	2003	20 Jun-2 Oct	Fyke	244	320	238	567	113.1	145.0	1.333	0.991	2.324	0.471	0.604	VT
	PEI	Long Pond, Dalvay	F	2003	26 Jun-25 Aug	Pot	195	10	6	19	2.3	3.6	0.061	0.037	0.097	0.014	0.022	VT
	PEI	Dalvay Lake[h]	F	1999	14-21 Jun, 2-20 Aug	Fyke	25	4	15	16	11.7	12.5	0.135	0.505	0.640	0.396	0.422	
	PEI	Dalvay Lake[h]	F	2000	30 May-16 Jun	Fyke	34	34	0	0	0.0	77.0	0.000	0.000	0.000	0.000	0.000	
	PEI	Campbells Pond	F	1999	7-30 Jun, 2-20 Aug	Fyke	246	93	287	381	168.4	181.0	0.379	1.170	1.549	0.686	0.738	
	PEI	Campbells Pond	F	2000	26 May-18 Aug	Fyke	441	145	111	257	59.6	78.5	0.330	0.253	0.583	0.136	0.179	
	PEI	Campbells Pond	F	2001	14 Aug-18 Sep	Fyke	68	108	35	119	17.4	32.5	1.322	0.428	1.750	0.213	0.398	
	PEI	Schooner Pond	F	1999	23-27 Aug	Fyke	12	14	11	25	4.6	6.6	1.167	0.917	2.083	0.386	0.551	
	PEI	Schooner Pond	F	2000	24 Jun-8 Jul, 20-28 Aug	Fyke	66	41	36	77	14.4	21.3	0.621	0.545	1.167	0.219	0.322	
		Sum/mean	F			Fyke	3,448	1,895	2,576	4,472	1,324	1,644	0.550	0.747	1.297	0.384	0.477	
		Sum/mean	F			Pot	195	10	6	19	2	4	0.061	0.037	0.097	0.014	0.022	
Landlocked barachois ponds																		
	NB	Cape Jourimain North Pond	B	2002	21 May-11 Jun	Fyke	27	0	0	0	0.0	0.0	0.000	0.000	0.000	0.000	0.000	
	NB	Cape Jourimain South Pond	B	2002	30 May-11 Jun	Fyke	18	0	0	0	0.0	0.0	0.000	0.000	0.000	0.000	0.000	
	PEI	Covehead Pond	F	1999	7-30 Jun, 2-20 Aug	Fyke	14	0	0	0	0.0	0.0	0.000	0.000	0.000	0.000	0.000	
	PEI	John Archies Pond	F	1999	7-14 Jun, 2-19 Jul	Fyke	14	0	0	0	0.0	0.0	0.000	0.000	0.000	0.000	0.000	
	PEI	Bells Pond	F	1999	7-14 Jun, 2-19 Jul	Fyke	14	0	1	1	2.4	2.4	0.000	0.071	0.071	0.170	0.170	
	PEI	Bowleys Pond	F	1999	19 Jul-2 Aug	Fyke	14	0	0	0	0.0	0.0	0.000	0.000	0.000	0.000	0.000	
	PEI	Bowleys Pond	F	2000	24-28 Aug	Fyke	4	0	0	0	0.0	0.0	0.000	0.000	0.000	0.000	0.000	
	PEI	Bog Pond	F	1999	19 Jul-2 Aug	Fyke	14	0	0	0	0.0	0.0	0.000	0.000	0.000	0.000	0.000	
	PEI	Bog Pond	F	2000	24-28 Aug	Fyke	4	0	0	0	0.0	0.0	0.000	0.000	0.000	0.000	0.000	
	PEI	Long Pond, Greenwich	F	1999	19 Jul-2 Aug	Fyke	14			25					1.786			
	PEI	Long Pond, Greenwich	F	2000	2-8 Jul, 20-31 Aug	Fyke	13	9	19	28	11.7	12.9	0.692	1.462	2.154	0.899	0.992	
		Sum/mean				Fyke	150	9	20	54	14	15	0.112	0.248	0.360	0.175	0.190	

Table 16 (continued)

Habitat	Province	Location	Salinity[a]	Year	Fishing dates	Gear type	Number of gear-days[b]	Eels caught: Number of eels <53 cm	Eels caught: Number of eels >=53 cm	Eels caught: Total number of eels[c]	Eels caught: Weight of eels >=53 cm (kg)	Eels caught: Weight of all eels (kg)	Catch per unit effort[d]: Number of eels <53 cm/ gear-day	Catch per unit effort[d]: Number of eels >=53 cm/ gear-day	Catch per unit effort[d]: Total number of eels/ gear-day	Catch per unit effort[d]: Weight of eels >=53 cm/ gear-day	Catch per unit effort[d]: Weight of all eels (kg)/ gear-day	Source[e]
Freshwater impoundments																		
	PEI	McCallums Pond	F	2003	20-30 May	Fyke	61	1	11	12	7.9	7.9	0.016	0.180	0.197	0.129	0.130	HL
	PEI	McCallums Pond	F	2005	10-18 May	Fyke	77	2	0	2	0.0	0.3	0.026	0.000	0.026	0.000	0.003	
	PEI	McMillans pond bed[f]	F	2003	15-23 May	Fyke	44	0	0	0	0.0	0.0	0.000	0.000	0.000	0.000	0.000	HL
	PEI	Cass Pond	F	2003	16 Jun-16 Jul	Fyke	89	11	9	20	5.1	7.0	0.124	0.101	0.225	0.057	0.079	HL
	PEI	Cass Pond	F	2003	15-27 Oct	Pot	12	0	0	0	0.0	0.0	0.000	0.000	0.000	0.000	0.000	HL
	PEI	Marshalls Pond	F	2003	3-20 Jun	Fyke	50	12	18	30	13.1	14.6	0.240	0.360	0.600	0.263	0.292	HL
	PEI	Parsons Pond	F	2003	5-6 Jun	Fyke	5	1	2	6	0.9	1.0	0.400	0.800	1.200	0.346	0.388	HL
	PEI	Whitlocks Pond	F	1999	Jul-Aug	Fyke	184	11	254	265	139.8	141.3	0.060	1.380	1.440	0.760	0.768	
	PEI	Whitlocks Pond	F	2001	20 Aug-21 Sep	Fyke	140	0	2	3	1.5	1.5	0.000	0.021	0.021	0.016	0.016	
	PEI	South Pinette Pond	F	2000	13 Sep-16 Oct	Fyke	48	2	2	4	2.2	2.5	0.042	0.042	0.083	0.046	0.052	
	PEI	Middle Pinette Pond	F	2000	25 Aug-16 Oct	Fyke	134	8	9	17	6.1	7.2	0.060	0.067	0.127	0.045	0.054	
	PEI	North Pinette Pond	F	2000	9 Sep-16 Oct	Fyke	106	17	32	49	27.8	30.5	0.160	0.302	0.462	0.262	0.287	
	PEI	North Pinette Pond	F	2001	10 May-30 Jul	Fyke	410	4	10	14	7.3	7.8	0.010	0.024	0.034	0.018	0.019	
		Sum/mean[i]	F			Fyke	1,304	69	349	422	212	221	0.053	0.270	0.324	0.164	0.171	
		Sum/mean	F			Pot	12	0	0	0	0	0	0.000	0.000	0.000	0.000	0.000	

[a]F - fresh; S - salt; B -brackish

[b]Includes only gear-days in which gear was fishing in a normal and proper manner.

[c]Includes only eels caught when gear was fishing in a normal and proper manner. In some cases this value differs from the number of eels measured, either because not all eels were measured, or because some eels were caught when the gear was not fishing in a normal and proper manner.

[d]J-H: Joseph-Haché 2001; DB: Wayne Denny and Doug Bernard, Pictou Landing Band, pers. comm.; H: Hutchison 1982; HT: Hutchison and Taylor 1980; HL: Heather Lamson, University of New Brunswick, unpublished data; VT: Valérie Tremblay, Parks Canada, unpublished data. All other data from present study.

[e]*Zostera* bed

[f]Sandy bottom

[g]Double-ended fyke nets, with a single leader joining two funnels.

[h]Connected to the sea by a long culvert which is subject to intermittent blockage.

[i]Stream flowing through the site of an old impoundment whose dam had washed out.

[j]Does not include data from McMillans pond bed.

Table 17. Mean eel counts per sweep in electrofishing surveys conducted in rivers in the Southern Gulf region, by sweep number.

River	Eels per sweep, for sweep no.																	
	0.5[a]			1			2			3			4			5		
	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N
Restigouche	0.17	0.98	736	0.47	1.38	784	0.14	0.53	784	0.07	0.35	783	0.04	0.29	582	0.02	0.15	347
Jaquet	0.63	0.52	8															
Tabusintac	0.01	0.12	72	0.00	0.00	9	0.00	0.00	9	0.00	0.00	9	0.00		1			
Miramichi	0.18	0.60	834	0.96	2.98	1,722	0.54	1.68	1,648	0.35	1.19	1,648	0.27	1.04	1,526	0.16	0.61	1,107
Kouchibougacis	0.13	0.35	8															
Kouchibouguac	0.23	0.44	13															
Richibucto	0.53	0.73	30															
Buctouche	0.20	0.47	69	0.38	0.65	13	0.31	0.63	13	0.15	0.38	13						
Cocagne	0.50	0.71	10															
Phillip	0.00	0.00	16	0.85	2.76	13	0.50	1.45	12	0.00	0.00	11	0.00		1			
Wallace	0.03	0.17	34	0.17	0.58	12	0.00	0.00	12	0.00	0.00	6	0.33	0.58	3			
John	0.11	0.32	18	0.33	0.58	3	0.00	0.00	3	0.00	0.00	3	0.00	0.00	3			
Middle R. Pictou	0.00	0.00	6															
East R. Pictou	0.03	0.17	34	0.15	0.37	20	0.10	0.31	20	0.00	0.00	16	0.00	0.00	10			
Sutherlands	0.00	0.00	13	4.00	3.61	3	2.00	1.00	3	1.33	0.58	3	1.00	0.00	2			
French	0.00	0.00	8	0.50	0.84	6	0.33	0.82	6	0.17	0.41	6	0.00	0.00	4			
Barneys	0.00	0.00	17	0.50	0.84	6	0.00	0.00	6	0.17	0.41	6	0.00	0.00	3			
West R. Antigonish	0.24	0.61	34	0.82	1.79	22	0.68	1.43	22	0.14	0.35	22	0.07	0.26	15			
South R. Antigonish	0.00	0.00	6															
Pomquet	0.06	0.24	17	0.00	0.00	3	0.00	0.00	3	0.00	0.00	3						
Afton	0.00	0.00	10															
Tracadie	0.00	0.00	5															
Mabou	1.00		1	0.73	1.39	15	0.27	0.59	15	0.20	0.56	15	0.00	0.00	5			
Margaree	0.14	0.99	85	3.59	8.12	310	2.12	5.91	309	1.29	3.58	307	0.90	2.45	256	0.54	1.75	189
Cheticamp	0.00	0.00	4	2.50	2.12	2	0.00	0.00	2	0.00	0.00	2						
Ellerslie				0.00	0.00	28	0.00	0.00	28	0.00	0.00	28	0.00	0.00	22			
Morell	0.50	1.00	4	2.85	7.00	97	2.32	4.24	56	1.43	3.40	56	1.96	3.66	23	1.55	2.66	11
Vernon				0.00	0.00	24	0.00	0.00	24	0.00	0.00	24	0.00	0.00	5			
Seal R., Vernon				0.00	0.00	24	0.00	0.00	24	0.00	0.00	24	0.00	0.00	5			
Enmore				0.00	0.00	32	0.00	0.00	32	0.00	0.00	32	0.00	0.00	12			
Little Pierre Jacques				0.00	0.00	28	0.00	0.00	28	0.00	0.00	28	0.00	0.00	19			
Weighted mean, sum[b]	0.17		2,092	1.10		3,176	0.60		3,059	0.37		3,045	0.29		2,497	0.18		1,654

[a]Sweep 0.5 is a sweep without barrier nets that is conducted alone, or conducted prior to a multi-sweep survey.

[b]Mean is weighted by sample size

Table 18. Electrofishing counts per sweep and sums of sweep counts as a proportion of the total population as estimated by the removal method (Zippin 1958), and correction factors to estimate total populations from sweep counts.

River	Sweep 0.5 counts[a]			Sweep 1 counts			Summed counts, sweeps 0.5-3			Summed counts, sweeps 1-3			Summed counts, sweeps 1-4			Summed counts, sweeps 1-5			Summed counts, sweeps 1-6		
	Prop. of Zippin estimate	Correction factor	N	Prop. of Zippin estimate	Correction factor	N	Prop. of Zippin estimate	Correction factor	N	Prop. of Zippin estimate	Correction factor	N	Prop. of Zippin estimate	Correction factor	N	Prop. of Zippin estimate	Correction factor	N	Prop. of Zippin estimate	Correction factor	N
Restigouche	0.000		2	0.503	1.990	84	0.813	1.230	2	0.873	1.146	84	0.906	1.103	81	0.916	1.092	49			
Miramichi	0.126	7.946	5	0.339	2.948	453	0.756	1.323	5	0.800	1.250	453	0.856	1.168	444	0.899	1.113	348	0.975	1.026	78
Buctouche				0.303	3.301	2				0.738	1.356	2	0.738	1.356	2						
Mainland Gulf NS rivers				0.440	2.270	15				0.862	1.160	15	0.890	1.123	13	0.925	1.081	11			
Margaree				0.410	2.441	146				0.791	1.265	146	0.858	1.166	134	0.882	1.133	107	0.894	1.118	75
Morell				0.527	1.899	22				0.876	1.142	22	0.913	1.095	17	0.942	1.061	9			
Weighted mean/sum[b]	0.090	11.124	7	0.380	2.630	722	0.772	1.295	7	0.810	1.235	722	0.864	1.157	691	0.898	1.113	524	0.936	1.069	153

[a]Sweep 0.5 is a sweep without barrier nets that is conducted alone, or conducted prior to a multi-sweep survey.

[b]Mean is weighted by sample size.

Table 19. Densities of eels estimated from electrofishing surveys on the Restigouche River, 1972-2006.

Branch[a]	Site	Date	Area (m^2)	Number of eels per sweep in sweep no.						Zippin pop. est.[c]	Eels/ 100 m^{2d}
				0.5[b]	1	2	3	4	5		
K	33	5 Jul 72	392		0	0	0				0.00
LMR	51	6 Jul 72	392		0	0	0	0			0.00
LMR	55	7 Jul 72	302		0	0	0	0	0		0.00
K	39	10 Jul 72	264		3	2	0	0	0	5.01	1.90
K	29	12 Jul 72	377		6	2	0	1		9.23	2.45
K	38	13 Jul 72	316		3	0	0	0	0		1.04
K	41	14 Jul 72	314		0	0	0	0	0		0.00
K	40	18 Jul 72	317		0	0	0	0			0.00
K	30	20 Jul 72	314		0	0	0	0	0		0.00
K	31	24 Jul 72	326		0	0	0	0	0		0.00
K	28	25 Jul 72	324		1	0	0	0	0		0.34
LMR	54	26 Jul 72	298		0	0	0	0			0.00
LMR	52	1 Aug 72	314		0	0	0	0			0.00
LMR	49	2 Aug 72	298		3	0	0	0	0		1.10
LMR	50	2 Aug 72	392		0	0	0	0	0		0.00
K	32	4 Aug 72	307		0	0	0				0.00
MR	5	11 Aug 72	325		3	1	0	1	0	5.14	1.58
U	18	12 Aug 72	274		1	0	0	0	0		0.40
MR	4	14 Aug 72	324		1	1	0	0	0	2.01	0.62
K	42	15 Aug 72	349		0	0	0	0			0.00
LMR	46	16 Aug 72	276		0	0					0.00
LMR	45	17 Aug 72	270		0	0	0	0			0.00
U	15	11 Jul 73	327		1	0	0				0.35
K	29	12 Jul 73	304		1	2	2	1			2.18
K	28	13 Jul 73	334		0	0	0	0	0		0.00
K	40	16 Jul 73	339		0	0	0	0	0		0.00
K	38	17 Jul 73	322		0	1	0	0	1		0.68
LMR	50	18 Jul 73	340		3	1	0	0	0	4.00	1.18
MR	4	20 Jul 73	523		3	0	0	0	0		0.63
LMR	55	24 Jul 73	260		0	0	0	0	0		0.00
LMR	45	25 Jul 73	276		2	0	0	0	0		0.79
LMR	46	25 Jul 73	276		0	0	0	0	0		0.00
K	39	26 Jul 73	353		1	2	0	0	1	5.53	1.57
U	21	30 Jul 73	318		1	2	0	0	0	3.04	0.96
LMR	54	31 Jul 73	254		0	0	0	0	0		0.00
LMR	52	1 Aug 73	314		0	0	0	0	0		0.00
K	42	6 Aug 73	337		0	0	0	0	0		0.00
U	16	14 Aug 73	392		2	0	0	1	0	3.19	0.81
LMR	49	15 Aug 73	229		1	0	0	0	0		0.48
K	41	20 Aug 73	330		0	1	1	0	0	2.76	0.84
MR	5	22 Aug 73	313		2	0	0	0	0		0.70
U	17	23 Aug 73	365		1	1	0	0	0	2.01	0.55
LMR	53	24 Aug 73	230		0	0	0	0	0		0.00
K	30	26 Aug 73	293		0	0	0	0	0		0.00
K	36	27 Aug 73	247		0	0	0	0	0		0.00
MR	3	28 Aug 73	335		1	1	0	0	0	2.01	0.60
MR	6	28 Aug 73	335		0	1	0	0	0	1.06	0.32
K	29	9 Jul 74	290		3	0	0	0	0		1.13
K	38	10 Jul 74	294		1	0	0	0			0.38
K	41	10 Jul 74	386		2	0	0	0	0		0.56
K	28	12 Jul 74	334		0	0	0	0	0		0.00
U	16	16 Jul 74	397		3	0	0	0	0		0.82
LMR	45	17 Jul 74	267		0	0	0	0	0		0.00
LMR	50	17 Jul 74	335		1	0	0	0			0.33
K	30	26 Jul 74	283		0	0	0	0	0		0.00
K	36	26 Jul 74	253		0	0	0	0	0		0.00
U	15	27 Jul 74	327		1	0	0	0	0		0.33
LMR	55	29 Jul 74	401		0	0	0	0	0		0.00
LMR	52	1 Aug 74	320		0	0	0	0	0		0.00
U	21	6 Aug 74	384		1	0	0	0	0		0.26
U	17	7 Aug 74	390		0	0	0	0	0		0.00
LMR	49	9 Aug 74	237		0	0	0	0	0		0.00
LMR	54	13 Aug 74	306		0	0	0	0			0.00
MR	3	14 Aug 74	475		0	0	0	0	0		0.00
MR	4	14 Aug 74	559		2	2	1	0	1	7.26	1.30
MR	5	15 Aug 74	339		1	0	0	0	0		0.32
MR	6	15 Aug 74	343		0	0	0	0	0		0.00
K	42	20 Aug 74	364		0	0	0	0	0		0.00
K	40	23 Aug 74	345		0	0	0	0	0		0.00
K	27	26 Aug 74	409		1	0	0	0			0.27
LMR	43	26 Aug 74	362		1	0	0	1	0	2.76	0.76
K	39	28 Aug 74	380		7	3	0	0	0	10.01	2.63
LMR	51	29 Aug 74	327		0	0	0	0	0		0.00
K	28	1 Jul 75	355		0	0	0	0			0.00
LMR	51	2 Jul 75	335		0	0	0	0	0		0.00
LMR	53	3 Jul 75	320		0	0	0	0	0		0.00
LMR	54	3 Jul 75	236		0	0	0				0.00
K	36	4 Jul 75	256		0	0	0	0	0		0.00
K	30	8 Jul 75	315		0	0	0	0			0.00
LMR	52	10 Jul 75	335		0	0	0	0	0		0.00
LMR	49	11 Jul 75	250		2	0	0	0	0		0.87
K	41	15 Jul 75	330		2	1	0	0		3.01	0.91
K	38	16 Jul 75	294		2	0	0	0	1	3.63	1.23
MR	4	18 Jul 75	363		7	2	0	0	1	10.09	2.78
U	21	22 Jul 75	377		2	0	1	0		3.14	0.83
LMR	48	23 Jul 75	334		1	0	1	0		2.46	0.74
K	40	24 Jul 75	326		0	0	0	0	0		0.00
K	27	30 Jul 75	372		0	0	0	0	0		0.00
LMR	43	31 Jul 75	362		17	4	2	0		23.12	6.38
MR	6	1 Aug 75	335		0	0	0	0	0		0.00
K	29	6 Aug 75	290		1	0	0	0	0		0.38
K	39	7 Aug 75	335		8	3	0	0		11.03	3.29
MR	3	8 Aug 75	335		4	2	0	0	0	6.01	1.79
K	42	11 Aug 75	339		0	0	0	0	0		0.00
LMR	55	12 Aug 75	310		0	0	0				0.00
LMR	45	13 Aug 75	314		0	0	0	0			0.00
LMR	50	15 Aug 75	338		1	1	2	0	1	12.67	3.75
MR	9	19 Aug 75	285		0	0	0	0	0		0.00
U	15	20 Aug 75	327		1	0	0	0			0.34
U	16	20 Aug 75	363		4	0	0	1	0	5.05	1.39
MR	5	21 Aug 75	372		3	2	1	0		6.28	1.69
MR	7	21 Aug 75	335		9	3	1	0	0	13.02	3.89
U	17	26 Aug 75	328		1	0	1	0	0	2.13	0.65
LMR	44	28 Aug 75	203		0	1	0	0	0	1.06	0.52
MR	9	28 Jun 76	290		0	0	0	0	0		0.00
LMR	51	29 Jun 76	335		0	0	0	0	0		0.00
LMR	55	30 Jun 76	312		0	0	0	0			0.00
LMR	54	1 Jul 76	254		0	0	0	0	0		0.00
LMR	49	6 Jul 76	265		0	0	0	0	0		0.00
LMR	53	7 Jul 76	235		0	0	0	0	0		0.00
LMR	52	8 Jul 76	335		0	0	0	0			0.00
MR	4	9 Jul 76	363		1	0	0	0	0		0.30
K	27	12 Jul 76	372		0	0	0	0	0		0.00
K	29	14 Jul 76	290		0	0	1	0	0		0.38
K	28	15 Jul 76	355		0	0	0	0	0		0.00
MR	3	16 Jul 76	335		5	2	0	0	0	7.00	2.09
LMR	48	19 Jul 76	357		2	0	0	0	0		0.61
LMR	44	20 Jul 76	203		0	0	0	0	0		0.00
K	42	21 Jul 76	339		0	0	0	0	0		0.00
K	38	22 Jul 76	294		0	0	0	0	0		0.00
MR	5	23 Jul 76	397		1	0	1	0	0	2.13	0.54
K	36	26 Jul 76	262		0	0	0	0	0		0.00
K	41	28 Jul 76	303		0	0	0	0	0		0.00
K	30	29 Jul 76	315		0	0	0	0	0		0.00
LMR	43	30 Jul 76	362		5	0	1	0	1	7.24	2.00
LMR	50	3 Aug 76	348		0	0	0	0	0		0.00
LMR	45	4 Aug 76	314		0	0	0	0	0		0.00
K	40	5 Aug 76	323		0	0	0	0	0		0.00
U	17	23 Aug 76	328		0	0	0	0	0		0.00
U	16	24 Aug 76	349		0	0	0	0	0		0.00
K	39	31 Aug 76	180		0	0	0	0	0		0.00
U	21	1 Sep 76	344		0	0	0	0			0.00
MR	7	2 Sep 76	253		1	0	1	0	0	2.13	0.84
MR	6	3 Sep 76	253		0	0	0	0	0		0.00
LMR	54	28 Jun 77	186		0	0	0	0			0.00
LMR	55	29 Jun 77	314		0	0	0	0	0		0.00
LMR	53	30 Jun 77	323		0	0	0	0	0		0.00
MR	9	4 Jul 77	307		0	0	0	0	0		0.00
LMR	52	5 Jul 77	335		0	0	0	0	0		0.00
K	42	7 Jul 77	354		0	0	0	0	0		0.00
MR	4	8 Jul 77	335		7	1	3	0	0	11.13	3.32
MR	3	11 Jul 77	335		1	0	0	1	0	2.76	0.83
LMR	51	12 Jul 77	305		0	0	0	0	0		0.00
K	40	13 Jul 77	346		0	0	0	0	0		0.00
K	38	15 Jul 77	305		0	0	0	0	0		0.00
LMR	43	18 Jul 77	362		3	0	0	0	0		0.90
K	41	20 Jul 77	327		1	0	0	0	0		0.33
K	36	21 Jul 77	303		0	0	0	0	0		0.00
K	39	22 Jul 77	339		3	0	1	0	0	4.02	1.19
K	30	26 Jul 77	289		0	0	0	0	0		0.00
K	29	28 Jul 77	290		0	0	0	0	0		0.00
K	27	29 Jul 77	372		0	0	0	0	0		0.00

Table 19 (continued)

Branch[a]	Site	Date	Area (m^2)	Number of eels per sweep in sweep no.					Zippin pop. est.[c]	Eels/ 100 m^{2d}
				0.5[b]	1	2	3	4	5	
LMR	48	2 Aug 77	319		1	0	0	0	0	0.34
LMR	44	3 Aug 77	212		0	0	1	0	0	0.51
U	17	4 Aug 77	328		0	0	0	0	0	0.00
MR	5	5 Aug 77	324		2	2	1	0	0	5.14	1.59
MR	6	8 Aug 77	335		0	0	0	0	0		0.00
U	16	9 Aug 77	335		3	0	0	0	0		0.98
U	21	10 Aug 77	357		0	2	1	0	0	3.63	1.02
LMR	50	11 Aug 77	347		1	2	0	0	0	3.04	0.88
LMR	49	15 Aug 77	287		0	0	0	0	0		0.00
LMR	45	16 Aug 77	314		0	0	0	0	0		0.00
K	28	18 Aug 77	345		1	0	0	0	0		0.32
U	14	19 Aug 77	252		0	0	0	0	0		0.00
MR	7	22 Aug 77	269		1	0	0	0	0		0.41
LMR	47	25 Aug 77	231		0	0	0	0	0		0.00
LMR	46	26 Aug 77	233		0	0	0	0	0		0.00
U	15	29 Aug 77	327		0	0	0	0	0		0.00
MR	9	26 Jun 78	307		0	0	0	0	0		0.00
LMR	54	27 Jun 78	242		0	0	0	0	0		0.00
MR	4	30 Jun 78	327		2	2	1	1	0	6.70	2.05
LMR	55	3 Jul 78	297		0	0	0	0	0		0.00
LMR	52	4 Jul 78	335		0	0	0	0	0		0.00
LMR	51	5 Jul 78	335		0	0	0	0	0		0.00
LMR	53	6 Jul 78	298		0	0	0	0	0		0.00
LMR	43	10 Jul 78	294		3	1	0	0	0	4.00	1.36
K	42	11 Jul 78	343		0	0	0	0	0		0.00
K	38	12 Jul 78	316		0	0	0	0	0		0.00
K	41	13 Jul 78	323		0	0	0	0	0		0.00
MR	3	14 Jul 78	335		1	0	0	0	0		0.33
K	36	17 Jul 78	286		0	0	0	0	0		0.00
K	39	18 Jul 78	318		2	0	2	0	0	4.25	1.34
K	40	19 Jul 78	346		0	0	0	0	0		0.00
K	30	20 Jul 78	286		0	0	0	0	0		0.00
K	29	24 Jul 78	290		2	1	0	0	0	3.00	1.04
LMR	50	25 Jul 78	376		1	0	0	0	0		0.29
LMR	45	26 Jul 78	335		0	0	0	0	0		0.00
LMR	44	27 Jul 78	252		0	0	0	0	0		0.00
K	27	31 Jul 78	326		0	0	0	0	0		0.00
LMR	48	2 Aug 78	304		1	1	0	0	0	2.01	0.66
U	21	3 Aug 78	351		0	0	0	0	0		0.00
MR	6	4 Aug 78	335		0	0	0	0	0		0.00
K	28	8 Aug 78	335		0	0	0	0	0		0.00
LMR	46	10 Aug 78	227		1	0	0	0	0		0.48
LMR	47	10 Aug 78	155		0	0	0	0	0		0.00
U	17	11 Aug 78	297		0	0	0	0	0		0.00
U	16	15 Aug 78	335		2	1	1	0	0	4.09	1.22
U	15	16 Aug 78	335		2	0	0	0	0		0.65
U	14	18 Aug 78	294		0	0	0	0	0		0.00
MR	7	22 Aug 78	288		0	0	0	0	0		0.00
MR	10	23 Aug 78	294		0	0	0	0	0		0.00
U	20	24 Aug 78	278		0	0	0	0	0		0.00
U	23	25 Aug 78	357		2	0	0	0	0		0.61
MR	5	28 Aug 78	261		0	0	0	0	0		0.00
LMR	49	29 Aug 78	272		0	0	0	0	0		0.00
U	19	30 Aug 78	267		1	1	0	0	0	2.01	0.75
MR	9	25 Jun 79	299		0	0	0	0	0		0.00
LMR	54	26 Jun 79	216		0	0	0	0	0		0.00
LMR	55	26 Jun 79	226		0	0	0	0	0		0.00
LMR	52	27 Jun 79	398		0	0	0	0	0		0.00
LMR	53	27 Jun 79	360		0	0	0	0	0		0.00
LMR	51	2 Jul 79	346		0	0	0	0	0		0.00
K	42	3 Jul 79	418		0	0	0	0	0		0.00
K	36	4 Jul 79	338		0	0	0	0	0		0.00
MR	4	5 Jul 79	400		0	0	0	0	0		0.00
K	27	9 Jul 79	446		0	0	0	0	0		0.00
K	38	10 Jul 79	311		0	0	0	0	0		0.00
K	41	10 Jul 79	408		0	0	0	0	0		0.00
K	39	11 Jul 79	417		2	1	0	0	0	3.00	0.72
K	40	11 Jul 79	360		0	0	0	0	0		0.00
K	30	12 Jul 79	366		0	0	0	0	0		0.00
LMR	43	13 Jul 79	440		0	0	0	0	0		0.00
LMR	48	16 Jul 79	368		0	0	0	0	0		0.00
K	28	17 Jul 79	420		0	0	0	0	0		0.00
LMR	44	17 Jul 79	304		0	0	0	0	0		0.00
K	29	18 Jul 79	350		0	0	0	0	0		0.00
MR	10	19 Jul 79	378		0	0	0	0	0		0.00
LMR	49	20 Jul 79	378		0	0	0	0	0		0.00
LMR	46	24 Jul 79	280		0	0	0	0	0		0.00
LMR	45	25 Jul 79	368		1	0	0	0	0		0.30
LMR	47	25 Jul 79	247		0	0	0	0	0		0.00
LMR	50	26 Jul 79	416		0	0	0	0	0		0.00
MR	6	1 Aug 79	400		0	0	0	0	0		0.00
MR	5	2 Aug 79	384		0	0	0	0	0		0.00
U	14	2 Aug 79	325		0	0	0	0	0		0.00
MR	3	3 Aug 79	400		0	0	0	0	0		0.00
MR	7	7 Aug 79	308		0	0	0	0	0		0.00
U	21	8 Aug 79	430		0	0	0	0	0		0.00
U	17	9 Aug 79	363		0	0	0	0	0		0.00
U	15	17 Aug 79	360		0	0	0	0	0		0.00
U	16	17 Aug 79	400		1	2	0	0	0	3.04	0.76
U	19	21 Aug 79	320		0	0	0	0	0		0.00
U	20	21 Aug 79	330		0	0	0	0	0		0.00
MR	8	23 Aug 79	275		0	0	0	0	0		0.00
U	23	24 Aug 79	449		3	2	1	0	0	6.08	1.36
U	22	31 Aug 79	298		2	0	0	0	0		0.73
MR	9	23 Jun 80	299		0	0	0	0	0		0.00
K	29	24 Jun 80	350		1	1	0	0	0	2.01	0.57
K	30	24 Jun 80	366		0	0	0	0	0		0.00
LMR	54	25 Jun 80	224		0	0	0	0	0		0.00
LMR	55	25 Jun 80	264		0	0	0	0	0		0.00
LMR	51	26 Jun 80	340		0	0	0	0	0		0.00
LMR	52	26 Jun 80	432		0	0	0	0	0		0.00
LMR	43	27 Jun 80	440		1	1	0	0	0	2.01	0.46
LMR	53	27 Jun 80	357		0	0	0	0	0		0.00
LMR	48	30 Jun 80	388		0	0	0	0	0		0.00
K	38	1 Jul 80	311		0	0	0	0	0		0.00
K	39	1 Jul 80	417		1	0	0	0	0		0.26
K	41	2 Jul 80	408		0	0	0	0	0		0.00
K	40	7 Jul 80	320		0	0	0	0	0		0.00
MR	12	8 Jul 80	270		5	2	0	0	0	7.00	2.59
K	36	21 Jul 80	419		0	0	0	0	0		0.00
LMR	44	21 Jul 80	312		0	0	0	0	0		0.00
LMR	45	22 Jul 80	322		0	0	0	0	0		0.00
LMR	46	22 Jul 80	232		0	0	0	0	0		0.00
MR	13	23 Jul 80	225		0	0	0	0	0		0.00
LMR	49	23 Jul 80	324		0	0	0	0	0		0.00
K	42	28 Jul 80	429		0	0	0	0	0		0.00
K	27	29 Jul 80	446		0	0	0	0	0		0.00
K	28	29 Jul 80	360		3	0	0	0	0		0.91
MR	8	31 Jul 80	275		0	0	0	0	0		0.00
LMR	50	1 Aug 80	416		0	0	0	0	0		0.00
MR	7	4 Aug 80	308		2	2	0	0	0	4.02	1.30
MR	3	5 Aug 80	378		2	0	0	0	0		0.58
MR	4	5 Aug 80	270		0	0	0	0	0		0.00
MR	6	6 Aug 80	400		0	0	0	0	0		0.00
U	21	7 Aug 80	468		0	0	0	0	0		0.00
U	17	11 Aug 80	363		0	0	0	0	0		0.00
U	19	12 Aug 80	300		2	0	0	1	1	8.56	2.85
U	20	12 Aug 80	330		0	0	0	0	0		0.00
U	16	14 Aug 80	400		0	0	0	0	0		0.00
U	15	15 Aug 80	360		0	0	0	0	0		0.00
U	22	25 Aug 80	300		0	0	0	0	0		0.00
U	23	25 Aug 80	600		0	0	0	0	0		0.00
LMR	47	27 Aug 80	389		0	0	0	0	0		0.00
MR	11	28 Aug 80	257		0	0	0	0	0		0.00
MR	5	29 Aug 80	319		2	4	3	5	0	33.62	10.55
U	14	29 Aug 80	240		0	0	0	0	0		0.00
LMR	55	25 Jun 81	391		0	0	0	0	0		0.00
K	30	30 Jun 81	315		0	0	0	0	0		0.00
LMR	51	1 Jul 81	336		0	0	0	0	0		0.00
LMR	54	1 Jul 81	279		0	0	0	0	0		0.00
MR	12	2 Jul 81	285		4	0	0	0	0		1.53
MR	9	3 Jul 81	297		0	0	0	0	0		0.00
K	42	6 Jul 81	400		0	0	0	0	0		0.00
K	39	7 Jul 81	408		0	0	0	0	0		0.00
K	40	7 Jul 81	405		0	0	0	0	0		0.00
K	38	8 Jul 81	351		0	0	0	0	0		0.00
K	41	8 Jul 81	408		0	0	0	0	0		0.00
LMR	53	9 Jul 81	406		0	0	0	0	0		0.00
LMR	52	14 Jul 81	689		0	0	0	0	0		0.00
MR	11	15 Jul 81	403		0	0	0	0	0		0.00
K	36	16 Jul 81	378		0	0	0	0	0		0.00
LMR	48	16 Jul 81	450		0	0	0	0	0		0.00

Table 19 (continued)

Branch[a]	Site	Date	Area (m^2)	Number of eels per sweep in sweep no.						Zippin pop. est.[c]	Eels/ 100 m^{2d}
				0.5[b]	1	2	3	4	5		
K	28	17 Jul 81	350		0	0	0	0	0		0.00
LMR	43	20 Jul 81	468		0	0	0	0	0		0.00
LMR	44	20 Jul 81	338		1	0	0	0	0		0.32
MR	6	21 Jul 81	400		0	0	0	0	0		0.00
MR	3	22 Jul 81	400		2	0	0	0	0		0.55
MR	4	22 Jul 81	400		0	0	0	0	0		0.00
MR	5	23 Jul 81	330		0	0	0	0	0		0.00
U	14	23 Jul 81	325		0	0	0	0	0		0.00
K	27	28 Jul 81	495		0	0	0	0	0		0.00
K	29	28 Jul 81	350		0	0	0	0	0		0.00
MR	10	29 Jul 81	338		0	0	0	0	0		0.00
MR	8	30 Jul 81	275		0	0	0	0	0		0.00
MR	13	4 Aug 81	175		0	0	0	0	0		0.00
LMR	49	4 Aug 81	297		0	0	0	0	0		0.00
LMR	45	5 Aug 81	368		0	0	0	0	0		0.00
LMR	46	5 Aug 81	280		0	0	0	0	0		0.00
MR	7	6 Aug 81	336		1	0	0	0	0		0.32
LMR	47	10 Aug 81	300		0	0	0	0	0		0.00
LMR	50	11 Aug 81	448		0	0	0	0	0		0.00
U	17	17 Aug 81	363		0	0	0	0	0		0.00
U	15	19 Aug 81	360		0	0	0	0	0		0.00
U	16	19 Aug 81	400		0	0	0	0	0		0.00
U	19	20 Aug 81	360		0	0	0	0	0		0.00
U	20	20 Aug 81	330		0	0	0	0	0		0.00
U	23	24 Aug 81	483		6	0	0	0	0		1.36
U	21	25 Aug 81	400		0	0	0	0	0		0.00
U	22	26 Aug 81	308		0	0	0	0	0		0.00
U	26	26 Aug 81	300		0	0	0	0	0		0.00
K	32	31 Aug 81	338		0	0	0	0	0		0.00
MR	11	29 Jun 82	224		0	0	0	0	0		0.00
MR	12	29 Jun 82	270		0	0	0	0	0		0.00
MR	13	30 Jun 82	225		0	0	0	0	0		0.00
K	30	30 Jun 82	441		0	0	0	0	0		0.00
LMR	53	5 Jul 82	396		0	0	0	0	0		0.00
LMR	55	5 Jul 82	279		0	0	0	0	0		0.00
LMR	48	6 Jul 82	425		0	0	0	0	0		0.00
LMR	52	6 Jul 82	400		0	0	0	0	0		0.00
K	27	7 Jul 82	363		0	0	0	0	0		0.00
LMR	51	7 Jul 82	270		0	0	0	0	0		0.00
K	36	8 Jul 82	351		0	0	0	0	0		0.00
U	14	9 Jul 82	325		0	0	0	0	0		0.00
K	32	12 Jul 82	351		0	0	0	0	0		0.00
K	42	12 Jul 82	440		0	0	0	0	0		0.00
K	29	13 Jul 82	350		0	0	0	0	0		0.00
LMR	54	13 Jul 82	230		0	0	0	0	0		0.00
LMR	43	14 Jul 82	440		0	0	0	0	0		0.00
LMR	44	14 Jul 82	312		0	0	0	0	0		0.00
K	38	15 Jul 82	324		1	0	0	0	0		0.34
K	40	15 Jul 82	360		0	0	0	0	0		0.00
LMR	50	19 Jul 82	384		0	0	0	0	0		0.00
LMR	46	20 Jul 82	280		0	0	0	0	0		0.00
LMR	47	20 Jul 82	255		0	0	0	0	0		0.00
LMR	45	21 Jul 82	368		0	0	0	0	0		0.00
LMR	49	26 Jul 82	378		0	0	0	0	0		0.00
K	39	27 Jul 82	442		0	0	0	0	0		0.00
K	41	28 Jul 82	408		0	0	0	0	0		0.00
K	28	3 Aug 82	385		0	0	0	0	0		0.00
MR	10	4 Aug 82	336		0	0	0	0	0		0.00
MR	9	6 Aug 82	286		0	0	0	0	0		0.00
MR	8	9 Aug 82	275		0	0	0	0	0		0.00
MR	7	11 Aug 82	308		0	0	0	0	0		0.00
U	21	12 Aug 82	400		0	0	0	0	0		0.00
MR	6	16 Aug 82	400		0	0	0	0	0		0.00
MR	5	17 Aug 82	398		10	2	0	1	0	13.02	3.28
U	23	18 Aug 82	483		2	0	0	0	0		0.45
MR	4	19 Aug 82	400		0	0	0	0	0		0.00
U	17	23 Aug 82	363		0	0	0	0	0		0.00
U	26	24 Aug 82	300		0	0	0	0	0		0.00
U	25	25 Aug 82	315		0	0	0	0	0		0.00
K	35	26 Aug 82	255		0	0	0	0	0		0.00
U	22	27 Aug 82	308		0	0	0	0	0		0.00
U	16	31 Aug 82	400		0	0	0	0	0		0.00
U	15	1 Sep 82	360		0	0	0	0	0		0.00
U	19	7 Sep 82	210		0	0	0	0	0		0.00
U	20	7 Sep 82	330		0	0	0	0	0		0.00
K	34	8 Sep 82	360		0	0	0				0.00

Branch[a]	Site	Date	Area (m^2)	Number of eels per sweep in sweep no.						Zippin pop. est.[c]	Eels/ 100 m^{2d}
				0.5[b]	1	2	3	4	5		
K	35	21 Jun 83	254		0	0	0				0.00
LMR	55	30 Jun 83	352		0	0	0	0			0.00
LMR	53	4 Jul 83	457		0	0	0	0			0.00
LMR	51	5 Jul 83	356		0	0	0	0			0.00
LMR	52	6 Jul 83	357		0	0	0	0			0.00
MR	11	7 Jul 83	356		0	0	0	0			0.00
K	34	7 Jul 83	314		0	0	0	0			0.00
LMR	54	7 Jul 83	237		0	0	0	0			0.00
K	36	11 Jul 83	337		0	0	0	0			0.00
K	30	12 Jul 83	236		0	0	0	0			0.00
MR	12	14 Jul 83	158		2	0	0	0			1.40
K	29	14 Jul 83	254		2	1	1	0		4.29	1.69
K	42	14 Jul 83	339		0	0	0	0			0.00
K	37	18 Jul 83	272		0	0	0	0			0.00
K	38	19 Jul 83	256		0	0	0	0			0.00
K	39	19 Jul 83	249		6	3	2	0		11.44	4.60
K	41	20 Jul 83	369		0	0	0	0			0.00
MR	13	21 Jul 83	162		0	0	0	0			0.00
K	28	21 Jul 83	275		0	0	0	0			0.00
K	32	21 Jul 83	238		0	0	0	0			0.00
MR	10	25 Jul 83	349		0	0	0	0			0.00
LMR	43	26 Jul 83	198		0	0	0	0			0.00
LMR	45	26 Jul 83	287		0	0	0	0			0.00
LMR	47	26 Jul 83	241		0	0	0	0			0.00
K	27	27 Jul 83	317		0	0	0	0			0.00
LMR	44	27 Jul 83	265		0	0	0	0			0.00
LMR	48	28 Jul 83	251		0	0	0	0			0.00
LMR	49	28 Jul 83	261		0	0	0	0			0.00
MR	6	2 Aug 83	330		0	0	0	0			0.00
MR	5	3 Aug 83	281		7	5	4	3		28.22	10.05
MR	4	4 Aug 83	298		1	0	0	0			0.37
MR	9	8 Aug 83	267		0	0	0	0			0.00
U	14	8 Aug 83	260		0	0	0	0			0.00
MR	8	9 Aug 83	286		0	0	0	0			0.00
LMR	46	10 Aug 83	212		0	0	0	0			0.00
LMR	50	15 Aug 83	412		0	0	0	0			0.00
MR	7	16 Aug 83	259		0	0	0	0			0.00
U	23	17 Aug 83	351		2	0	0	0			0.63
U	21	18 Aug 83	391		0	0	0	0			0.00
U	24	22 Aug 83	319		0	0	0	0			0.00
U	25	23 Aug 83	205		0	0	0	0			0.00
U	26	23 Aug 83	297		0	0	0	0			0.00
U	22	24 Aug 83	304		1	0	0	0			0.36
U	19	29 Aug 83	262		1	0	0	0			0.42
U	20	29 Aug 83	328		1	0	0	0			0.34
U	15	30 Aug 83	300		0	0	0	0			0.00
U	16	30 Aug 83	311		1	1	1	0		3.69	1.19
U	17	31 Aug 83	270		1	0	0	0			0.41
MR	2	6 Sep 83	229		1	0	1				1.00
K	40	7 Sep 83	316		0	0	0	0			0.00
MR	1	8 Sep 83	400		8	2	1	2		14.03	3.51
K	30	26 Jun 85	275		0	0	0	0			0.00
K	35	27 Jun 85	298		0	0	0	0			0.00
K	36	27 Jun 85	356		0	0	0	0			0.00
K	34	3 Jul 85	311		0	0	0	0			0.00
K	42	3 Jul 85	275		0	0	0	0			0.00
K	38	4 Jul 85	245		0	0	0	0			0.00
K	40	4 Jul 85	298		0	0	0	0			0.00
MR	10	15 Jul 85	252		0	0	0				0.00
LMR	51	22 Jul 85	180		1	0	0	0			0.61
MR	12	23 Jul 85	272		2	2	1	0		5.46	2.00
K	32	23 Jul 85	237		0	0	0	0			0.00
LMR	45	24 Jul 85	282		0	1	0	0		1.23	0.44
U	22	26 Jul 85	268		2	0	0	0			0.82
U	26	30 Jul 85	287		0	0	0	0			0.00
U	15	31 Jul 85	374		0	0	0	0			0.00
MR	13	1 Aug 85	197		0	0	0	0			0.00
K	39	6 Aug 85	273		0	0	0	0			0.00
K	37	7 Aug 85	250		0	0	0	0			0.00
K	41	7 Aug 85	271		0	0	0	0			0.00
MR	11	8 Aug 85	373		1	0	0	0			0.30
MR	4	9 Aug 85	298		4	0	2	0		6.28	2.11
LMR	54	12 Aug 85	191		0	0	0	0			0.00
LMR	55	12 Aug 85	248		0	0	0	0			0.00
K	29	13 Aug 85	179		1	0	0	0			0.62
LMR	52	13 Aug 85	246		0	0	0	0			0.00

Table 19 (continued)

Branch[a]	Site	Date	Area (m^2)	Number of eels per sweep in sweep no.					Zippin pop. est.[c]	Eels/ 100 m^{2d}
				0.5[b]	1	2	3	4	5	
LMR	53	13 Aug 85	244	0	0	0	0			0.00
K	28	14 Aug 85	264	0	0	0	0			0.00
LMR	49	14 Aug 85	246	0	0	0	0			0.00
LMR	46	15 Aug 85	215	1	0	0	0			0.51
LMR	47	15 Aug 85	253	1	0	0	0			0.44
LMR	43	19 Aug 85	269	2	0	0	0			0.82
LMR	50	19 Aug 85	282	0	0	0	0			0.00
U	21	20 Aug 85	270	0	0	0	0			0.00
K	27	20 Aug 85	333	0	0	0	0			0.00
U	24	21 Aug 85	434	0	0	0	0			0.00
U	25	21 Aug 85	235	0	0	0	0			0.00
MR	7	22 Aug 85	271	0	0	0	0			0.00
MR	5	26 Aug 85	369	3	3	1	1		9.84	2.67
MR	6	26 Aug 85	317	0	0	0	0			0.00
MR	9	27 Aug 85	225	0	0	0	0			0.00
U	14	27 Aug 85	278	0	0	0	0			0.00
U	16	28 Aug 85	260	1	0	1	0		2.46	0.95
U	17	28 Aug 85	316	0	0	0	0			0.00
U	23	29 Aug 85	389	2	1	0	0		3.01	0.77
MR	1	3 Sep 85	343	4	0	1	0		5.04	1.47
K	30	8 Jul 86	192	0	0	0	0			0.00
K	38	9 Jul 86	286	0	0	1	0			0.39
LMR	54	10 Jul 86	163	0	0	0	0			0.00
MR	5	11 Jul 86	285	9	2	2	1		14.58	5.11
MR	9	17 Jul 86	259	0	0	0	0			0.00
U	17	18 Jul 86	296	0	0	0	0			0.00
U	24	21 Jul 86	340	0	0	0	0			0.00
MR	12	22 Jul 86	231	2	2	0	0		4.07	1.76
K	32	23 Jul 86	220	0	0	0	0			0.00
MR	11	24 Jul 86	353	0	0	0	0			0.00
U	16	25 Jul 86	309	2	1	0	0		3.01	0.98
LMR	49	28 Jul 86	198	0	0	0	0			0.00
LMR	51	29 Jul 86	175	0	0	0	0			0.00
LMR	52	29 Jul 86	192	0	0	0	0			0.00
LMR	53	30 Jul 86	226	0	0	0	0			0.00
LMR	55	30 Jul 86	147	0	0	0	0			0.00
K	28	5 Aug 86	276	0	0	0	0			0.00
K	29	5 Aug 86	197	2	0	0	0			1.12
K	40	6 Aug 86	193	0	0	0	0			0.00
K	41	6 Aug 86	252	2	0	0	0			0.88
MR	4	7 Aug 86	305	4	0	0	0			1.44
K	36	7 Aug 86	328	0	0	0	0			0.00
U	23	13 Aug 86	222	0	0	0	0			0.00
K	39	14 Aug 86	228	3	1	1	0		5.16	2.26
K	42	14 Aug 86	275	0	0	0	0			0.00
U	21	18 Aug 86	303	1	0	0	0			0.36
LMR	45	19 Aug 86	267	0	0	0	0			0.00
LMR	46	19 Aug 86	145	0	0	0	0			0.00
LMR	43	20 Aug 86	208	0	0	0	0			0.00
LMR	50	20 Aug 86	250	0	0	0	0			0.00
K	29	4 Aug 87	198	1	0	0	0			0.56
K	41	4 Aug 87	145	0	0	0	0			0.00
K	38	5 Aug 87	209	0	0	0	0			0.00
K	40	5 Aug 87	151	0	0	0	0			0.00
K	39	11 Aug 87	190	1	0	0	0			0.58
K	42	12 Aug 87	225	0	0	0	0			0.00
LMR	52	18 Aug 87	148	0	0	0	0			0.00
LMR	54	19 Aug 87	139	0	0	0	0			0.00
LMR	55	19 Aug 87	110	0	0	0	0			0.00
K	30	20 Aug 87	170	0	0	0	0			0.00
LMR	45	26 Aug 87	179	0	0	0	0			0.00
MR	4	27 Aug 87	152	0	0	0	0			0.00
K	28	28 Aug 87	183	1	0	0	0			0.60
MR	5	31 Aug 87	188	4	0	1	0		5.04	2.68
LMR	49	2 Sep 87	187	0	0	0	0			0.00
K	40	18 Jul 88	218	0	0	0	0			0.00
LMR	49	27 Jul 88	186	0	0	0	0			0.00
LMR	54	29 Jul 88	150	0	0	0	0			0.00
LMR	55	29 Jul 88	136	0	0	0	0			0.00
K	38	1 Aug 88	245	0	0	0	0			0.00
K	41	1 Aug 88	121	0	0	0	0			0.00
K	39	2 Aug 88	186	2	1	0	0		3.01	1.62
K	29	3 Aug 88	173	1	0	0	0			0.64
LMR	52	3 Aug 88	143	0	0	0	0			0.00
K	42	4 Aug 88	244	0	0	0	0			0.00
MR	4	17 Aug 88	134	2	0	0	1		3.69	2.75
MR	5	17 Aug 88	140	8	1	0	0		9.00	6.41
K	30	18 Aug 88	114	0	0	0	0			0.00
LMR	45	23 Aug 88	169	0	0	0	0			0.00
K	28	24 Aug 88	153	0	0	0	0			0.00
K	38	27 Jul 89	243	0	0	0	0			0.00
K	40	27 Jul 89	189	0	0	0	0			0.00
K	41	1 Aug 89	296	0	0	0	0			0.00
K	29	2 Aug 89	137	1	0	0	0			0.81
K	30	2 Aug 89	98	0	0	0	0			0.00
LMR	49	3 Aug 89	153	0	0	0	0			0.00
LMR	52	9 Aug 89	157	0	0	0	0			0.00
LMR	55	9 Aug 89	132	0	0	0	0			0.00
MR	4	10 Aug 89	166	0	0	0	0			0.00
MR	5	10 Aug 89	162	6	3	2	0		11.44	7.08
K	42	22 Aug 89	244	0	1	0	0		1.23	0.50
K	28	23 Aug 89	170	0	0	0	0			0.00
LMR	54	23 Aug 89	146	0	0	0	0			0.00
K	39	24 Aug 89	201	1	0	0				0.57
LMR	45	30 Aug 89	145	0	0	0	0			0.00
K	38	25 Jul 90	240	0	0	0				0.00
K	40	25 Jul 90	164	0	0	0				0.00
K	39	26 Jul 90	118	1	1	0	0		2.04	1.72
K	42	31 Jul 90	273	0	0	0	0			0.00
K	41	2 Aug 90	136	1	0	0	0			0.81
LMR	49	7 Aug 90	154	0	0	0	0			0.00
LMR	52	8 Aug 90	164	0	0	0	0			0.00
LMR	55	8 Aug 90	114	0	0	0				0.00
K	29	9 Aug 90	138	0	0	0	0			0.00
K	30	9 Aug 90	111	0	0	0	0			0.00
K	28	22 Aug 90	127	0	0	0	0			0.00
LMR	54	22 Aug 90	126	0	0	0				0.00
MR	4	23 Aug 90	102	0	0	0	0			0.00
MR	5	23 Aug 90	105	2	1	0	0		3.01	2.87
LMR	45	28 Aug 90	144	0	0	0	0			0.00
LMR	52	24 Jul 91	174	0	0	0	0			0.00
K	40	25 Jul 91	177	0	0	0	0			0.00
MR	4	26 Jul 91	126	0	0	0				0.00
MR	5	26 Jul 91	149	1	0	1	0		2.46	1.65
K	28	29 Jul 91	134	0	0	0	0			0.00
K	30	29 Jul 91	104	0	0	0	0			0.00
LMR	45	30 Jul 91	83	0	0	0	0			0.00
LMR	55	31 Jul 91	134	0	0	0	0			0.00
LMR	54	19 Aug 92	155	0	0	0				0.00
LMR	52	20 Aug 92	166	0	0	0				0.00
K	30	25 Aug 92	111	0	0	0	0			0.00
LMR	45	26 Aug 92	180	1	0	0	0			0.61
K	28	1 Sep 92	103	0	0	0	0			0.00
K	40	2 Sep 92	167	0	0	0				0.00
K	42	3 Sep 92	230	0	0	0				0.00
LMR	55	8 Sep 92	175	0	0	0				0.00
MR	5	9 Sep 92	118	0	0	0	0			0.00
MR	4	10 Sep 92	113	0	0	0	0			0.00
K	29	3 Aug 93	127	0	0	0				0.00
K	41	4 Aug 93	113	0	0	0				0.00
K	28	5 Aug 93	139	0	0	0	0			0.00
LMR	52	17 Aug 93	195	0	0	0				0.00
K	30	18 Aug 93	140	0	0	0				0.00
LMR	49	19 Aug 93	147	0	0	0				0.00
K	39	25 Aug 93	127	0	0	0				0.00
LMR	55	26 Aug 93	200	0	0	0				0.00
MR	5	8 Sep 93	107	0	0	0	0			0.00
LMR	54	9 Sep 93	164	0	0	0				0.00
MR	4	13 Sep 93	146	0	0	0				0.00
K	42	14 Sep 93	95	0	0	0				0.00
K	38	15 Sep 93	233	0	0	0				0.00
LMR	45	16 Sep 93	137	0	0	0				0.00
K	40	21 Sep 93	181	0	0	0				0.00
LMR	54	6 Jul 94	172	0	0	0				0.00
K	38	7 Jul 94	249	0	0	0				0.00
K	30	20 Jul 94	114	0	0	0	0			0.00
K	39	26 Jul 94	146	2	1	0			3.07	2.11
K	42	27 Jul 94	124	0	0	0				0.00
K	40	16 Aug 94	171	0	0	0				0.00
LMR	52	17 Aug 94	224	0	0	0				0.00
K	41	18 Aug 94	57	0	0	0				0.00
LMR	45	23 Aug 94	136	0	0	0	0			0.00

Table 19 (continued)

Branch[a]	Site	Date	Area (m^2)	Number of eels per sweep in sweep no.						Zippin pop. est.[c]	Eels/ 100 m^{2d}
				0.5[b]	1	2	3	4	5		
MR	5	24 Aug 94	89		0	0	1				1.28
MR	4	26 Aug 94	60		0	0	0				0.00
MR	4	18 Jul 95	116		0	0	0				0.00
LMR	55	20 Jul 95	205		0	0	0				0.00
MR	5	24 Jul 95	167		0	0	0				0.00
K	29	25 Jul 95	133		0	0	0				0.00
K	39	26 Jul 95	149		0	0	0				0.00
LMR	49	27 Jul 95	121		0	0	0				0.00
K	42	2 Aug 95	119		0	0	0				0.00
K	40	3 Aug 95	167		0	0	0				0.00
LMR	52	8 Aug 95	157		0	0	0				0.00
K	41	9 Aug 95	116		0	0	0				0.00
K	30	10 Aug 95	136		0	0	0				0.00
K	28	22 Aug 95	142		0	0	0				0.00
LMR	45	23 Aug 95	125		0	0	0				0.00
LMR	53	16 Jul 96	135		0	0	0				0.00
MR	4	17 Jul 96	123		0	0	0				0.00
K	30	18 Jul 96	120		0	0	0				0.00
K	38	30 Jul 96	226		0	0	0				0.00
K	39	31 Jul 96	131		0	0	0				0.00
K	29	1 Aug 96	73		0	0	0				0.00
K	41	6 Aug 96	95		0	0	0				0.00
K	42	7 Aug 96	106		0	0	0				0.00
LMR	52	8 Aug 96	142		0	0	0				0.00
K	40	20 Aug 96	161		0	0	0				0.00
LMR	45	21 Aug 96	164		0	0	0				0.00
LMR	49	22 Aug 96	101		0	0	0				0.00
LMR	55	27 Aug 96	174		0	0	0				0.00
MR	5	28 Aug 96	120		0	0	0				0.00
K	28	29 Aug 96	111		0	0	0				0.00
G	52	15 Jul 97	157	0	0	0	0				0.00
MR	4	21 Jul 97	146	0	0	0	0				0.00
G	53	22 Jul 97	119	0	0	0	0				0.00
K	29	23 Jul 97	145	0	0	0	0				0.00
K	30	29 Jul 97	145	0	0	0	0				0.00
K	39	31 Jul 97	122	0	0	0	0				0.00
K	38	7 Aug 97	121	0	0	0	0				0.00
K	45	4 Sep 97	99	0	0	0	0				0.00
K	40	10 Sep 97	178	0	0	0	0				0.00
K	28	11 Sep 97	133	0	0	0	0				0.00
K	42	16 Sep 97	103	0	0	0	0				0.00
G	55	17 Sep 97	129	0	0	0	0				0.00
K	41	18 Sep 97	120	0	0	0	0				0.00
FF	49	24 Sep 97	161	0	0	0	0				0.00
U	14	25 Sep 97	151	0							0.00
U	21	25 Sep 97	117	0							0.00
MR	5	30 Sep 97	142	0	0	0	0				0.00
U	17	1 Oct 97	141	0							0.00
MR	8	8 Oct 97	104	0							0.00
LMR	43	8 Oct 97	113	0							0.00
LMR	44	9 Oct 97	53	0							0.00
U	16	10 Oct 97	127	0							0.00
U	15	11 Oct 97	139	0							0.00
U	24	14 Oct 97	189	0							0.00
U	25	14 Oct 97	164	0							0.00
U	18	15 Oct 97	91	0							0.00
U	60	15 Oct 97	107	0							0.00
U	22	16 Oct 97	116	0							0.00
G	53	30 Jul 98	137	0	0	0	0				0.00
K	39	4 Aug 98	157	0	0	0	0				0.00
K	40	5 Aug 98	149	0	0	0	0				0.00
K	42	6 Aug 98	104	0	0	0	0				0.00
K	38	19 Aug 98	148	0	0	0	0				0.00
MR	4	20 Aug 98	134	1							8.28
U	14	20 Aug 98	113	0							0.00
K	41	25 Aug 98	111	0	0	0	0				0.00
MR	7	27 Aug 98	156	0							0.00
MR	8	27 Aug 98	148	0							0.00
K	28	1 Sep 98	127	0	0	0	0				0.00
MD	36	8 Sep 98	116	0							0.00
LMR	43	10 Sep 98	95	0							0.00
K	29	15 Sep 98	140	0	0	0	0				0.00
K	30	16 Sep 98	121	0	0	0	0				0.00
LMR	46	17 Sep 98	108	0							0.00
LMR	47	17 Sep 98	104	0							0.00
LMR	45	23 Sep 98	127	0	0	0	0				0.00
G	52	24 Sep 98	146	0	0	0	0				0.00
MR	1	29 Sep 98	120	0							0.00
MR	2	29 Sep 98	150	0							0.00
MR	3	29 Sep 98	150	0							0.00
MR	5	29 Sep 98	127	0	0	0	0				0.00
MR	6	29 Sep 98	150	0							0.00
U	21	30 Sep 98	150	0							0.00
FF	49	30 Sep 98	174	0							0.00
G	55	30 Sep 98	141	0							0.00
U	15	1 Oct 98	135	0							0.00
U	17	1 Oct 98	150	0							0.00
U	18	1 Oct 98	135	0							0.00
U	22	13 Oct 98	180	0							0.00
U	24	13 Oct 98	278	0							0.00
U	25	13 Oct 98	137	0							0.00
U	26	13 Oct 98	108	0							0.00
U	16	14 Oct 98	104	0							0.00
LMR	44	22 Oct 98	83	0							0.00
U	60	22 Oct 98	143	0							0.00
LMR	85	22 Oct 98	150	0							0.00
G	53	6 Jul 99	135	0	0	0	0				0.00
G	55	7 Jul 99	185	0	0	0	0				0.00
MR	4	8 Jul 99	133	0	1	0	0			1.23	0.92
U	14	8 Jul 99	167	0							0.00
FB	32	13 Jul 99	127	0							0.00
G	52	13 Jul 99	125	0	0	0	0				0.00
K	39	14 Jul 99	117	0	0	0	0				0.00
K	30	15 Jul 99	114	0	0	0	0				0.00
MD	36	15 Jul 99	144	0							0.00
K	40	19 Jul 99	164	0	0	0	0				0.00
LMR	44	20 Jul 99	106	0							0.00
LMR	85	20 Jul 99	170	0							0.00
MR	6	22 Jul 99	200	0							0.00
U	25	28 Jul 99	152	0							0.00
U	26	28 Jul 99	148	0							0.00
LMR	45	18 Aug 99	140	0							0.00
LMR	46	18 Aug 99	127	0							0.00
LMR	47	18 Aug 99	125	0							0.00
K	38	19 Aug 99	115	0	0	0	0				0.00
K	41	19 Aug 99	126	0	0	0	0				0.00
K	28	24 Aug 99	135	0	0	0	0				0.00
K	29	24 Aug 99	103	0	0	0	0				0.00
K	42	31 Aug 99	121	0	0	0	0				0.00
FF	49	1 Sep 99	193	0	0	0	0				0.00
MR	1	2 Sep 99	95	1							11.69
MR	2	2 Sep 99	105	0							0.00
MR	5	2 Sep 99	122	0	0	0	0				0.00
MR	30	2 Sep 99	110	0							0.00
FB	34	7 Sep 99	136	0							0.00
ST	37	7 Sep 99	144	0							0.00
TB	57	7 Sep 99	150	0							0.00
MR	8	14 Sep 99	100	0							0.00
HB	11	14 Sep 99	150	0							0.00
HB	12	14 Sep 99	123	0							0.00
LMR	43	14 Sep 99	90	0							0.00
MR	7	15 Sep 99	155	0							0.00
CB	9	15 Sep 99	165	0							0.00
U	21	15 Sep 99	165	0							0.00
U	16	16 Sep 99	150	0							0.00
U	23	16 Sep 99	150	0							0.00
U	24	16 Sep 99	150	0							0.00
RB	70	16 Sep 99	115	1							9.67
U	15	20 Sep 99	150	0							0.00
U	17	20 Sep 99	150	0							0.00
U	18	20 Sep 99	150	0							0.00
U	60	20 Sep 99	140	0							0.00
U	22	21 Sep 99	150	0							0.00
U	86	21 Sep 99	55	0							0.00
PB	67	28 Sep 99	171	0							0.00
JF	68	28 Sep 99	100	0							0.00
CB	56	29 Sep 99	127	0							0.00
GB	64	29 Sep 99	150	0							0.00
G	53	12 Jul 00	113	0	0	0	0				0.00
U	25	25 Jul 00	132	0							0.00
U	26	25 Jul 00	178	0							0.00
G	51	1 Aug 00	150	0							0.00

Table 19 (continued)

Branch[a]	Site	Date	Area (m^2)	Number of eels per sweep in sweep no.						Zippin pop. est.[c]	Eels/ 100 m^2[d]
				0.5[b]	1	2	3	4	5		
G	52	1 Aug 00	132	0	0	0	0				0.00
G	55	1 Aug 00	164	0							0.00
K	38	2 Aug 00	150	0							0.00
K	40	2 Aug 00	173	0	0	0	0				0.00
K	80	2 Aug 00	150	0							0.00
UB	82	3 Aug 00	150	0							0.00
K	42	8 Aug 00	111	0	0	0	0				0.00
K	81	8 Aug 00	150	0							0.00
K	39	9 Aug 00	99	0	0	0	1				1.31
K	76	9 Aug 00	150	0							0.00
K	30	10 Aug 00	121	0	0	0	0				0.00
HB	12	22 Aug 00	130	0							0.00
FF	49	22 Aug 00	190	0	0	0	0				0.00
K	28	23 Aug 00	150	0							0.00
K	29	23 Aug 00	117	0	0	0	0				0.00
MR	1	24 Aug 00	150	1							7.42
MR	2	24 Aug 00	175	0							0.00
MR	3	24 Aug 00	150	0							0.00
MR	4	24 Aug 00	150	1							7.42
MR	5	24 Aug 00	150	0							0.00
MR	6	24 Aug 00	150	0							0.00
PB	67	30 Aug 00	157	0							0.00
JF	68	30 Aug 00	200	0							0.00
U	14	31 Aug 00	150	0							0.00
K	41	31 Aug 00	98	0	0	0	0				0.00
U	23	5 Sep 00	150	0							0.00
U	66	5 Sep 00	150	0							0.00
RB	70	5 Sep 00	164	1							6.78
HB	11	7 Sep 00	178	0							0.00
LMR	44	7 Sep 00	100	0							0.00
JB	50	7 Sep 00	150	0							0.00
LMR	85	7 Sep 00	150	0							0.00
LMR	43	8 Sep 00	150	0							0.00
LMR	45	11 Sep 00	150	0							0.00
LMR	46	11 Sep 00	150	0							0.00
LMR	47	11 Sep 00	217	0							0.00
MR	8	12 Sep 00	150	0							0.00
FB	32	12 Sep 00	150	0							0.00
FB	34	12 Sep 00	189	0							0.00
NC	75	12 Sep 00	145	0							0.00
U	16	14 Sep 00	150	0							0.00
U	22	14 Sep 00	150	0							0.00
U	24	14 Sep 00	150	0							0.00
U	61	14 Sep 00	198	0							0.00
MD	36	18 Sep 00	233	0							0.00
ST	37	18 Sep 00	177	0							0.00
TB	57	18 Sep 00	150	0							0.00
TB	58	18 Sep 00	199	0							0.00
U	15	19 Sep 00	150	0							0.00
U	17	19 Sep 00	150	0							0.00
U	18	19 Sep 00	150	0							0.00
U	60	19 Sep 00	153	1							7.29
CB	9	20 Sep 00	212	0							0.00
CB	56	20 Sep 00	152	0							0.00
U	62	20 Sep 00	105	0							0.00
GB	64	20 Sep 00	202	0							0.00
MR	7	21 Sep 00	150	0							0.00
U	21	21 Sep 00	150	0							0.00
K	77	25 Sep 00	154	0							0.00
MB	78	25 Sep 00	93	0							0.00
BB	79	25 Sep 00	127	0							0.00
U	65	27 Sep 00	150	0							0.00
K	81	16 Jul 01	150	0							0.00
ST	37	24 Jul 01	140	0							0.00
K	42	24 Jul 01	123	0	0	0	0				0.00
K	80	24 Jul 01	150	0							0.00
UB	82	24 Jul 01	150	0							0.00
FB	32	25 Jul 01	150	0							0.00
FB	33	25 Jul 01	150	0							0.00
G	53	25 Jul 01	100	0	0	0	0				0.00
G	55	25 Jul 01	183	0							0.00
HB	11	26 Jul 01	150	0							0.00
HB	12	26 Jul 01	167	0							0.00
LMR	45	26 Jul 01	150	0							0.00
LMR	46	26 Jul 01	150	0							0.00
LMR	47	26 Jul 01	150	0							0.00
K	38	30 Jul 01	150	0							0.00
K	39	30 Jul 01	127	0	0	0	0				0.00
K	40	31 Jul 01	187	0	0	0	0				0.00
K	41	31 Jul 01	157	0	0	0	0				0.00
K	28	1 Aug 01	150	0							0.00
K	30	1 Aug 01	117	0	0	0	0				0.00
MD	36	1 Aug 01	286	0							0.00
MR	8	2 Aug 01	150	0							0.00
LMR	44	2 Aug 01	150	1							7.42
LMR	85	2 Aug 01	150	0							0.00
G	51	7 Aug 01	150	0							0.00
G	52	7 Aug 01	130	0	0	0	0				0.00
K	1G	7 Aug 01	150	0							0.00
LMR	43	8 Aug 01	150	0							0.00
FF	49	8 Aug 01	175	0	0	0	0				0.00
JB	50	8 Aug 01	150	0							0.00
K	29	9 Aug 01	131	0	0	0	0				0.00
TB	57	9 Aug 01	150	0							0.00
TB	88	9 Aug 01	273	0							0.00
K	48	13 Aug 01	184	0							0.00
K	76	13 Aug 01	150	0							0.00
K	77	13 Aug 01	150	0							0.00
U	24	14 Aug 01	221	0	0	0	0				0.00
U	25	14 Aug 01	132	0							0.00
U	26	14 Aug 01	135	0							0.00
U	22	15 Aug 01	150	0							0.00
U	65	15 Aug 01	121	0	0	0	0				0.00
PB	67	15 Aug 01	152	0							0.00
JF	68	15 Aug 01	150	0							0.00
U	17	16 Aug 01	161	0							0.00
U	E1	16 Aug 01	120	0	0	0	0				0.00
MR	6	20 Aug 01	150	0							0.00
CB	9	20 Aug 01	144	0							0.00
U	14	20 Aug 01	124	0	0	0	0				0.00
CB	56	20 Aug 01	158	0							0.00
U	16	22 Aug 01	150	0							0.00
U	18	22 Aug 01	150	0							0.00
U	60	22 Aug 01	159	4							28.07
U	61	22 Aug 01	150	0							0.00
MR	3	23 Aug 01	150	0							0.00
MR	5	23 Aug 01	117	0	0	0	0				0.00
MR	1	27 Aug 01	150	2							14.83
MR	2	27 Aug 01	150	0							0.00
MR	4	27 Aug 01	150	0							0.00
U	62	27 Aug 01	150	0							0.00
GB	64	27 Aug 01	196	0							0.00
U	23	28 Aug 01	150	1							7.42
RB	70	28 Aug 01	170	0							0.00
MR	7	29 Aug 01	150	0							0.00
U	21	29 Aug 01	150	0							0.00
SB	NS1	29 Aug 01	204	0							0.00
M	M12	30 Aug 01	128	0	1	0	0				1.01
M	M1	4 Sep 01	150	0							0.00
M	M2	4 Sep 01	150	0							0.00
M	M3	4 Sep 01	150	0							0.00
M	M10	5 Sep 01	150	0							0.00
M	M11	5 Sep 01	150	0							0.00
M	M4	5 Sep 01	150	0							0.00
M	M5	5 Sep 01	150	0							0.00
M	M6	5 Sep 01	150	1							7.42
M	M7	5 Sep 01	150	1							7.42
M	M8	5 Sep 01	150	0							0.00
M	M9	5 Sep 01	150	0							0.00
M	M13	6 Sep 01	150	0							0.00
M	M14	6 Sep 01	150	0							0.00
M	M15	6 Sep 01	150	0							0.00
M	M16	6 Sep 01	150	0							0.00
M	M19	6 Sep 01	150	0							0.00
M	M32	6 Sep 01	150	0							0.00
A	A1	10 Sep 01	150	0							0.00
C	C1	11 Sep 01	150	0							0.00
A	A2	12 Sep 01	150	0							0.00
C	C2	12 Sep 01	150	0							0.00
MS	ME1	12 Sep 01	169	0							0.00
MI	MK1	12 Sep 01	150	0							0.00
H	H1	17 Sep 01	168	9							59.77

Table 19 (continued)

Branch[a]	Site	Date	Area (m^2)	Number of eels per sweep in sweep no.					Zippin pop. est.[c]	Eels/ 100 m^{2d}
				0.5[b]	1	2	3	4	5	
H	H2	17 Sep 01	150	10						74.16
H	H3	17 Sep 01	150	0						0.00
H	NH1	17 Sep 01	150	0						0.00
P	PE1	17 Sep 01	150	0						0.00
P	PO1	17 Sep 01	150	0						0.00
P	P1	24 Sep 01	150	0						0.00
P	P2	24 Sep 01	144	0						0.00
P	P3	24 Sep 01	150	0						0.00
P	P4	24 Sep 01	150	0						0.00
P	PO2	24 Sep 01	150	0						0.00
MR	4G	27 Sep 01	150	0						0.00
K	32	15 Jul 02	150	0						0.00
K	34	15 Jul 02	150	0						0.00
MR	11	16 Jul 02	150	0						0.00
LMR	55	16 Jul 02	167	0						0.00
K	82	16 Jul 02	143	0						0.00
U	65	17 Jul 02	150	0	0	0	0	0		0.00
U	67	17 Jul 02	155	0						0.00
U	68	17 Jul 02	165	0						0.00
U	81	17 Jul 02	165	0						0.00
U	17	18 Jul 02	150	0						0.00
U	16	18 Jul 02	150	0						0.00
U	17A	18 Jul 02	133	0	0	0	0	0		0.00
U	24	24 Jul 02	173	0	0	0	0	0		0.00
U	25	24 Jul 02	160	0						0.00
U	26	24 Jul 02	162	0						0.00
U	14	25 Jul 02	133	0	0	0	0	0		0.00
U	62	25 Jul 02	150	0						0.00
U	64	25 Jul 02	160	0						0.00
MR	56	29 Jul 02	132	0						0.00
MR	5	30 Jul 02	126	0	0	0	0	0		0.00
MR	6	30 Jul 02	150	0						0.00
U	18	31 Jul 02	150	0						0.00
U	22	31 Jul 02	150	0						0.00
U	23	31 Jul 02	150	0						0.00
U	61	31 Jul 02	150	0						0.00
U	70	31 Jul 02	170	0						0.00
MR	2	1 Aug 02	160	0						0.00
MR	FB	1 Aug 02	150	0						0.00
M	M3	1 Aug 02	120	0	0	0	0	0		0.00
LMR	51	6 Aug 02	150	0						0.00
LMR	52	6 Aug 02	134	0	0	0	0	0		0.00
LMR	53	6 Aug 02	104	0	0	0	0	0		0.00
K	42	12 Aug 02	117	0	0	0	0	0		0.00
K	80	12 Aug 02	150	0						0.00
K	81	12 Aug 02	232	0						0.00
K	W	12 Aug 02	150	1						7.42
K	40	13 Aug 02	179	0	0	0	0	0		0.00
K	41	13 Aug 02	105	0	0	0	0	0		0.00
K	28	14 Aug 02	150	0						0.00
K	38	14 Aug 02	150	0						0.00
K	39	14 Aug 02	125	0	1	0	0	0		0.89
MR	12	15 Aug 02	141	0						0.00
K	29	19 Aug 02	129	1	0	0	0	0		0.00
K	36	19 Aug 02	268	0						0.00
K	37	19 Aug 02	341	0						0.00
K	30	20 Aug 02	136	0	0	0	0	0		0.00
MR	57	20 Aug 02	114	0	0	0	0	0		0.00
MR	58	20 Aug 02	267	0						0.00
LMR	45	21 Aug 02	150	0						0.00
LMR	46	21 Aug 02	150	0						0.00
LMR	47	21 Aug 02	150	0						0.00
LMR	49	21 Aug 02	340	0						0.00
LMR	50	21 Aug 02	150	0						0.00
LMR	44	22 Aug 02	150	0						0.00
LMR	85	22 Aug 02	150	0						0.00
K	76	26 Aug 02	150	0						0.00
K	77	26 Aug 02	150	1						7.42
K	78	26 Aug 02	207	1						5.37
K	79	26 Aug 02	167	0						0.00
MR	7	27 Aug 02	150	0						0.00
U	21	27 Aug 02	150	0						0.00
U	SB	27 Aug 02	221	0						0.00
U	60	28 Aug 02	150	0						0.00
M	M1	29 Aug 02	150	2						14.83
M	M2	29 Aug 02	150	0						0.00
M	M4	29 Aug 02	160	0						0.00
M	M5	29 Aug 02	150	3						22.25
MR	1	3 Sep 02	150	1						7.42
MR	3	3 Sep 02	150	0						0.00
MR	4	3 Sep 02	150	0						0.00
MR	9	3 Sep 02	174	0						0.00
M	A2	3 Sep 02	150	0						0.00
M	A1	9 Sep 02	150	0						0.00
M	C1	9 Sep 02	150	0						0.00
M	C2	9 Sep 02	150	0						0.00
M	MK1	9 Sep 02	150	0						0.00
M	MR1	9 Sep 02	150	0						0.00
M	H2	10 Sep 02	150	13						96.41
M	H3	10 Sep 02	150	0						0.00
M	HI	10 Sep 02	171	5						32.53
M	NH1	10 Sep 02	170	0						0.00
P	PE1	10 Sep 02	136	1						8.19
P	PQ1	10 Sep 02	150	4						29.66
P	P1	12 Sep 02	160	0						0.00
P	P2	12 Sep 02	160	0						0.00
P	P3	12 Sep 02	150	0						0.00
P	P4	12 Sep 02	150	0						0.00
P	PO2	12 Sep 02	150	0						0.00
MR	8	16 Sep 02	150	0						0.00
LMR	43	16 Sep 02	150	0						0.00
U	15	17 Sep 02	150	0						0.00
U	PB	17 Sep 02	150	0						0.00
MR	TB	18 Sep 02	160	0						0.00
MR	CORB	19 Sep 02	160	0						0.00
MR	WB	19 Sep 02	150	0						0.00
K	34	14 Jul 03	255	0						0.00
LMR	53	14 Jul 03	119	0	0	0	0			0.00
LMR	55	14 Jul 03	187	0						0.00
MR	11	15 Jul 03	150	0						0.00
MR	12	15 Jul 03	130	0						0.00
K	42	15 Jul 03	115	0	0	0	0			0.00
LMR	51	15 Jul 03	150	0						0.00
LMR	52	15 Jul 03	126	0	0	0	0			0.00
K	80	16 Jul 03	150	0						0.00
K	81	16 Jul 03	216	0						0.00
K	82	16 Jul 03	153	0						0.00
K	39	17 Jul 03	116	1	0	0	0			1.12
U	23	21 Jul 03	150	1						7.42
U	70	21 Jul 03	150	1						7.42
U	61	23 Jul 03	150	0						0.00
K	32	28 Jul 03	150	0						0.00
MR	57	28 Jul 03	121	0	0	0	0			0.00
MR	58	28 Jul 03	301	0						0.00
K	W	28 Jul 03	150	0						0.00
K	29	29 Jul 03	126	0	0	0	0			0.00
K	30	29 Jul 03	123	0	0	0	0			0.00
U	24	30 Jul 03	185	0	0	0	0			0.00
U	24	30 Jul 03	185	0	0	0	0			0.00
U	24	30 Jul 03	185	0	0	0	0			0.00
U	24	30 Jul 03	185	0	0	0	0			0.00
U	25	30 Jul 03	185	0	0	0	0			0.00
U	25	30 Jul 03	152	0						0.00
U	26	30 Jul 03	185	0	0	0	0			0.00
U	26	30 Jul 03	158	0						0.00
U	27	30 Jul 03	185	0	0	0	0			0.00
U	28	30 Jul 03	185	0	0	0	0			0.00
U	29	30 Jul 03	185	0	0	0	0			0.00
U	30	30 Jul 03	185	0	0	0	0			0.00
U	31	30 Jul 03	185	0	0	0	0			0.00
U	22	31 Jul 03	150	0						0.00
U	65	31 Jul 03	112	0	0	0	0			0.00
U	68	31 Jul 03	150	0						0.00
U	21	12 Aug 03	150	0						0.00
U	SB	12 Aug 03	204	0						0.00
U	64	13 Aug 03	236	0						0.00
U	67	13 Aug 03	224	0						0.00
U	PB	13 Aug 03	267	0						0.00
MR	9	14 Aug 03	225	0						0.00
MR	56	14 Aug 03	175	0						0.00
K	28	18 Aug 03	150	0						0.00
K	36	18 Aug 03	285	0						0.00

Table 19 (continued)

Branch[a]	Site	Date	Area (m^2)	Number of eels per sweep in sweep no.						Zippin pop. est.[c]	Eels/ 100 m^{2d}
				0.5[b]	1	2	3	4	5		
K	37	18 Aug 03	342	0							0.00
LMR	43	19 Aug 03	150	0							0.00
LMR	49	19 Aug 03	254	0							0.00
LMR	85	19 Aug 03	150	0							0.00
MR	6	20 Aug 03	150	0							0.00
U	16	20 Aug 03	150	0							0.00
U	17	20 Aug 03	150	0							0.00
U	18	20 Aug 03	150	0							0.00
MR	7	25 Aug 03	150	0							0.00
MR	TB	25 Aug 03	150	0							0.00
MR	WB	25 Aug 03	322	0							0.00
U	14	26 Aug 03	142	0	0	0	0				0.00
U	62	27 Aug 03	150	0							0.00
MR	3	28 Aug 03	150	0							0.00
MR	4	28 Aug 03	150	0							0.00
U	60	2 Sep 03	151	1							7.39
U	17A	2 Sep 03	118	0	0	0	0				0.00
K	40	3 Sep 03	171	0	0	0	0				0.00
K	41	3 Sep 03	114	0	0	0	0				0.00
MR	1	8 Sep 03	150	1							7.42
MR	2	8 Sep 03	150	0							0.00
MR	5	8 Sep 03	122	0	0	0	0				0.00
MR	FB	8 Sep 03	150	0							0.00
LMR	45	9 Sep 03	150	0							0.00
LMR	46	9 Sep 03	150	0							0.00
LMR	47	9 Sep 03	150	0							0.00
LMR	50	9 Sep 03	150	0							0.00
MR	8	10 Sep 03	150	0							0.00
K	38	10 Sep 03	150	0							0.00
U	15	11 Sep 03	150	0							0.00
U	16	14 Jul 04	150	0							0.00
U	22	14 Jul 04	150	0							0.00
U	23	14 Jul 04	150	0							0.00
U	61	14 Jul 04	160	0							0.00
U	PB	14 Jul 04	150	0							0.00
U	24	20 Jul 04	184	0	0	0	0				0.00
U	65	20 Jul 04	123	0	0	0	0				0.00
U	17	21 Jul 04	150	0							0.00
U	18	21 Jul 04	150	0							0.00
U	26	21 Jul 04	183	0							0.00
U	17A	21 Jul 04	133	0	0	0	0				0.00
U	25	22 Jul 04	173	0							0.00
U	21	26 Jul 04	150	0							0.00
U	60	26 Jul 04	150	0							0.00
U	SB	26 Jul 04	244	0							0.00
MR	57	27 Jul 04	90	0	0	0	0				0.00
MR	58	27 Jul 04	304	0							0.00
K	W	27 Jul 04	150	0							0.00
LMR	51	28 Jul 04	150	0							0.00
LMR	53	28 Jul 04	128	0	0	0	0				0.00
LMR	55	28 Jul 04	193	0							0.00
MR	6	29 Jul 04	150	0							0.00
MR	9	29 Jul 04	204	0							0.00
U	14	29 Jul 04	100	0	0	0	0				0.00
MR	11	3 Aug 04	242	0							0.00
K	42	3 Aug 04	103	0	0	0	0				0.00
K	81	3 Aug 04	150	0							0.00
K	82	3 Aug 04	150	0							0.00
K	38	4 Aug 04	150	0							0.00
K	39	4 Aug 04	105	0	0	0	0				0.00
LMR	49	5 Aug 04	403	0							0.00
LMR	50	5 Aug 04	150	0							0.00
LMR	85	5 Aug 04	150	0							0.00
K	32	9 Aug 04	150	0							0.00
K	34	9 Aug 04	242	0							0.00
LMR	52	9 Aug 04	135	0	0	0	0				0.00
K	40	10 Aug 04	206	0	0	0	0				0.00
K	41	10 Aug 04	106	0	0	0	0				0.00
K	29	11 Aug 04	127	0	0	0	0				0.00
K	30	11 Aug 04	120	0	0	0	0				0.00
U	15	19 Aug 04	150	0							0.00
U	62	19 Aug 04	150	0							0.00
U	64	19 Aug 04	170	0							0.00
K	79	23 Aug 04	190	3							17.56
MR	7	24 Aug 04	160	0							0.00
MR	8	24 Aug 04	150	0							0.00
MR	12	24 Aug 04	158	0							0.00
MR	TB	24 Aug 04	160	0							0.00
LMR	43	25 Aug 04	150	0							0.00
LMR	45	25 Aug 04	150	0							0.00
LMR	46	25 Aug 04	150	0							0.00
LMR	47	25 Aug 04	150	0							0.00
K	28	26 Aug 04	150	0							0.00
K	36	26 Aug 04	325	0							0.00
K	37	26 Aug 04	331	0							0.00
MR	1	1 Sep 04	150	0							0.00
MR	2	1 Sep 04	154	0							0.00
MR	3	1 Sep 04	154	0							0.00
MR	4	1 Sep 04	154	1							7.22
MR	56	1 Sep 04	183	0							0.00
MR	CORB	1 Sep 04	220	0							0.00
MR	WB	2 Sep 04	338	0							0.00
K	76	6 Sep 04	150	1							7.42
M	M 1	7 Sep 04	150	2							14.83
M	M2	7 Sep 04	150	0							0.00
M	M4	7 Sep 04	150	0							0.00
P	P1	21 Sep 04	150	0							0.00
P	P2	21 Sep 04	150	0							0.00
P	P3	21 Sep 04	150	0							0.00
P	P4	21 Sep 04	150	0							0.00
P	PO2	21 Sep 04	150	0							0.00
M	A1	23 Sep 04	150	0							0.00
M	C1	23 Sep 04	150	0							0.00
M	C2	28 Sep 04	150	0							0.00
M	M5	28 Sep 04	150	3							22.25
M	ME 1	28 Sep 04	150	0							0.00
M	MK 1	28 Sep 04	150	0							0.00
MR	5	30 Sep 04	150	0							0.00
M	A2	30 Sep 04	150	0							0.00
M	M3	30 Sep 04	150	0							0.00
M	H1	14 Oct 04	253	1							4.40
M	H2	14 Oct 04	150	0							0.00
M	H3	14 Oct 04	150	0							0.00
M	NH1	14 Oct 04	150	0							0.00
P	PE1	14 Oct 04	150	0							0.00
P	PO1	14 Oct 04	150	0							0.00
G	51	19 Jul 05	150	0							0.00
G	53	19 Jul 05	120	0	0	0	0				0.00
G	55	19 Jul 05	225	0							0.00
FB	32	20 Jul 05	150	0							0.00
FB	34	20 Jul 05	327	0							0.00
G	52	20 Jul 05	127	0	0	0	0				0.00
MD	36	21 Jul 05	298	0							0.00
ST	37	21 Jul 05	414	0							0.00
U	14	22 Jul 05	115	0	0	0	0				0.00
MR	5	25 Jul 05	134	0							0.00
MR	6	25 Jul 05	150	0							0.00
K	42	26 Jul 05	116	0	0	0	0				0.00
K	81	26 Jul 05	150	0							0.00
UB	82	26 Jul 05	150	0							0.00
CB	9	27 Jul 05	172	0							0.00
CB	56	27 Jul 05	159	0							0.00
K	38	28 Jul 05	150	1							7.42
K	39	28 Jul 05	143	0	2	0	0			2.46	1.72
K	80	28 Jul 05	150	0							0.00
MR	8	2 Aug 05	150	0							0.00
HB	11	2 Aug 05	150	0							0.00
HB	12	2 Aug 05	150	0							0.00
K	28	2 Aug 05	150	0							0.00
K	29	3 Aug 05	127	0	0	0	0				0.00
K	30	3 Aug 05	118	0	0	0	0				0.00
K	40	4 Aug 05	186	0	0	0	0				0.00
K	41	4 Aug 05	111	0	0	0	0				0.00
LMR	43	8 Aug 05	150	0							0.00
TB	57	8 Aug 05	122	0	0	0	0				0.00
TB	58	8 Aug 05	241	0							0.00
K	W	8 Aug 05	150	0							0.00
K	76	9 Aug 05	150	0							0.00
K	77	9 Aug 05	150	0							0.00
LMR	45	10 Aug 05	150	0							0.00
LMR	46	10 Aug 05	150	0							0.00
LMR	47	10 Aug 05	206	0							0.00

Table 19 (continued)

Branch[a]	Site	Date	Area (m^2)	Number of eels per sweep in sweep no.						Zippin pop. est.[c]	Eels/ 100 m^{2d}
				0.5[b]	1	2	3	4	5		
FF	49	10 Aug 05	219	0							0.00
JB	50	11 Aug 05	150	0							0.00
LMR	85	11 Aug 05	150	0							0.00
U	17	15 Aug 05	118	0							0.00
U	18	15 Aug 05	150	0							0.00
U	17A	15 Aug 05	150	0	0	0	0				0.00
U	16	16 Aug 05	150	0							0.00
U	60	16 Aug 05	150	0							0.00
U	61	16 Aug 05	150	0							0.00
U	22	17 Aug 05	150	0							0.00
U	23	17 Aug 05	150	0							0.00
JF	68	17 Aug 05	159	0							0.00
RB	70	17 Aug 05	137	0							0.00
U	65	18 Aug 05	103	0	0	0	0				0.00
LPB	67	18 Aug 05	130	0							0.00
U	24	22 Aug 05	270	0	0	0	0				0.00
U	25	22 Aug 05	160	0							0.00
U	26	22 Aug 05	130	0							0.00
U	15	23 Aug 05	150	0							0.00
U	62	23 Aug 05	150	0							0.00
PB	PB	23 Aug 05	235	0							0.00
U	21	24 Aug 05	150	0							0.00
GB	64	24 Aug 05	162	0							0.00
SB	SB	24 Aug 05	196	0							0.00
MR	1	25 Aug 05	150	0							0.00
MR	3	25 Aug 05	150	0							0.00
MR	4	25 Aug 05	150	1							7.42
BB	UR1	6 Sep 05	128	0							0.00
U	UR2	6 Sep 05	150	0							0.00
U	UR3	6 Sep 05	150	0							0.00
U	UR4	6 Sep 05	150	0							0.00
U	UR5	6 Sep 05	150	0							0.00
BO	UR6	7 Sep 05	149	0							0.00
U	UR7	7 Sep 05	150	0							0.00
U	UR8	7 Sep 05	150	0							0.00
U	UR9	7 Sep 05	150	0							0.00
U	UR10	8 Sep 05	150	1							7.42
U	UR11	8 Sep 05	150	0							0.00
U	UR12	8 Sep 05	150	0							0.00
MR	7	12 Sep 05	150	0							0.00
MR	TB	12 Sep 05	150	0							0.00
WB	WB	12 Sep 05	236	0							0.00
MR	2	13 Sep 05	150	1							7.42
CR	CORB	13 Sep 05	191	0							0.00
MR	FB	13 Sep 05	150	0							0.00
M	M4	13 Sep 05	150	0							0.00
M	M5	13 Sep 05	150	0							0.00
P	P1	14 Sep 05	150	0							0.00
P	P2	14 Sep 05	154	0							0.00
P	P3	14 Sep 05	150	0							0.00
P	P4	14 Sep 05	150	0							0.00
P	PO2	14 Sep 05	150	0							0.00
MI	MK1	15 Sep 05	150	0							0.00
C	C2	15 Sep 05	150	0							0.00
MS	ME1	15 Sep 05	150	0							0.00
H	H1	19 Sep 05	231	11							53.02
H	H2	19 Sep 05	150	2							14.83
H	H25	19 Sep 05	231	1							4.82
H	H3	19 Sep 05	150	0							0.00
H	NH1	19 Sep 05	153	0							0.00
P	PE1	19 Sep 05	153	0							0.00
P	PO1	19 Sep 05	150	1							7.42
C	C1	20 Sep 05	150	0							0.00
M	M1	20 Sep 05	135	0							0.00
M	M2	20 Sep 05	150	0							0.00
A	A1	22 Sep 05	150	0							0.00
M	M3	27 Sep 05	150	0							0.00
K	28	11 Jul 06	150	0							0.00
FB	34	11 Jul 06	248	0							0.00
MD	36	11 Jul 06	311	1							3.58
ST	37	11 Jul 06	339	0							0.00
K	42	12 Jul 06	96	0	0	0	0				0.00
K	81	12 Jul 06	150	0							0.00
UB	82	12 Jul 06	160	0							0.00
MR	8	13 Jul 06	150	0							0.00
HB	11	13 Jul 06	162	0							0.00
HB	12	13 Jul 06	170	0							0.00
FB	32	13 Jul 06	150	0							0.00
K	39	17 Jul 06	116	0	0	0	0				0.00
K	76	17 Jul 06	150	0							0.00
K	38	18 Jul 06	150	0							0.00
K	80	18 Jul 06	150	0							0.00
K	40	19 Jul 06	216	0	0	0	0				0.00
K	41	19 Jul 06	102	0	0	0	0				0.00
TB	57	20 Jul 06	90	0	0	0	0				0.00
TB	58	20 Jul 06	254	0							0.00
U	22	24 Jul 06	150	0							0.00
U	23	24 Jul 06	150	0							0.00
JF	68	24 Jul 06	156	0							0.00
RB	70	24 Jul 06	177	1							6.29
U	17	26 Jul 06	150	0							0.00
U	18	26 Jul 06	150	0							0.00
U	60	26 Jul 06	150	0							0.00
U	17A	26 Jul 06	102	0	0	0	0				0.00
MR	6	27 Jul 06	150	0							0.00
CB	9	27 Jul 06	189	0							0.00
CB	56	27 Jul 06	185	0							0.00
K	29	31 Jul 06	127	0	0	0	0				0.00
K	30	31 Jul 06	116	0	0	0	0				0.00
U	16	1 Aug 06	150	0							0.00
U	21	1 Aug 06	150	0							0.00
U	61	1 Aug 06	150	0							0.00
P3	SB	1 Aug 06	159	0							0.00
U	24	2 Aug 06	213	0	0	0	0				0.00
U	25	2 Aug 06	159	0							0.00
U	26	2 Aug 06	181	0							0.00
U	15	3 Aug 06	150	0							0.00
MK1	PB	3 Aug 06	150	0							0.00
GB	64	8 Aug 06	202	0							0.00
U	65	8 Aug 06	93	0	0	0	0				0.00
LPB	67	8 Aug 06	178	0							0.00
MR	5	9 Aug 06	100	0	0	0	0				0.00
U	14	9 Aug 06	109	0	0	0	0				0.00
MR	2	14 Aug 06	150	0							0.00
MR	3	14 Aug 06	150	0							0.00
MR	4	14 Aug 06	150	0							0.00
CR	CORB	14 Aug 06	195	0							0.00
MR	FB	14 Aug 06	150	0							0.00
G	51	16 Aug 06	150	0							0.00
G	52	16 Aug 06	132	0	0	0	0				0.00
G	53	16 Aug 06	114	0	0	0	0				0.00
G	55	16 Aug 06	194	0							0.00
MR	7	17 Aug 06	150	0							0.00
P4	TB	17 Aug 06	150	0							0.00
WB	WB	17 Aug 06	245	1							4.54
LMR	43	22 Aug 06	150	0							0.00
FF	49	22 Aug 06	257	0							0.00
JB	50	22 Aug 06	150	0							0.00
LMR	85	22 Aug 06	150	0							0.00
LMR	45	23 Aug 06	62	0	0	0	0				0.00
LMR	46	23 Aug 06	150	0							0.00
LMR	47	23 Aug 06	154	0							0.00
MR	1	24 Aug 06	150	0							0.00
U	62	24 Aug 06	150	0							0.00
K	W	24 Aug 06	150	0							0.00
A	A1	29 Aug 06	150	0							0.00
C	C1	29 Aug 06	238	0							0.00
C	C2	29 Aug 06	250	0							0.00
MS	ME1	30 Aug 06	150	0							0.00
MI	MK1	30 Aug 06	150	0							0.00
M	M1	31 Aug 06	160	3							20.86
M	M2	31 Aug 06	150	0							0.00
M	M4	31 Aug 06	150	0							0.00
M	M5	31 Aug 06	150	1							7.42
M3	P1	5 Sep 06	150	0							0.00
M4	P2	5 Sep 06	150	0							0.00
M5	P3	5 Sep 06	150	0							0.00
ME1	P4	5 Sep 06	150	0							0.00
P2	PO2	5 Sep 06	150	0							0.00
K	77	6 Sep 06	150	1							7.42
M	A2	7 Sep 06	150	0							0.00
M	M3	7 Sep 06	91	0	0	0	0				0.00

Table 19 (continued)

Branch[a]	Site	Date	Area (m^2)	Number of eels per sweep in sweep no.						Zippin pop. est.[c]	Eels/ 100 m^{2d}
				0.5[b]	1	2	3	4	5		
H	H1	11 Sep 06	227	10							48.98
H	H2	11 Sep 06	150	4							29.66
H	H3	11 Sep 06	150	0							0.00
M2	NH1	11 Sep 06	150	0							0.00
NH1	PE1	11 Sep 06	213	0							0.00
P1	PO1	11 Sep 06	150	0							0.00

[a]A=Assemetquagan R., BB=Berry Brook, C=Causapscal R., CB=Christopher Brook, FB=Falls Brook, FF=Five Finger Brook, G=Gounamitz R., GB=Grog Brook, H=Humqui R., HB=Hailes Brook, JB=Jardine Brook, JF=Jerry Ferguson Brook, K=Kedgwick R., LMR=Little Main Restigouche R., LPB=Little Popelogan Brook, M=Matapedia R., MB=Murray Brook, MD=MacDougall Brook, MI=Milnikek R., MR=Main Restigouche R., MS=Millstream R., NC=North Clearwater Brook, P=Patapedia R., RB=Ramsey Brook, SB=Sauvage Brook, ST=States Brook, TB=Tracy Brook, U=Upsalquitch R., UB=Union Brook.

[b]Sweep 0.5 is a sweep without barrier nets that is conducted alone, or conducted prior to a multi-sweep survey.

[c]Population estimated by the removal method (Zippin 1958).

[d]Calculated from Zippin estimates where available. Otherwise calculated by applying conversion factors (Table 18) to counts per sweep. Conversion factors derived from all southern Gulf data were used where only Sweep 0.5 was done, and where Sweeps 0.5, 1, 2, and 3 were done. In other cases correction factors derived from Restigouche data were used.

Table 20. Densities of eels estimated from electrofishing surveys on the Jacquet River, 2002.

Site	Date	Area (m^2)	Number of eels per sweep in sweep no.						Zippin pop. est.[b]	Eels/ 100 m^{2c}
			0.5[a]	1	2	3	4	5		
J1	5 Sep 02	150	1							7.42
J2	5 Sep 02	150	1							7.42
J2	5 Sep 02	150	1							7.42
J2	5 Sep 02	150	1							7.42
J3	5 Sep 02	150	1							7.42
J4	5 Sep 02	150	0							0.00
J5	5 Sep 02	150	0							0.00
J6	5 Sep 02	150	0							0.00

[a]Sweep 0.5 is a sweep without barrier nets that is conducted alone, or conducted prior to a multi sweep survey.

[b]Population estimated by the removal method (Zippin 1958).

[c]Calculated by applying conversion factors for the Southern Gulf (Table 18) to counts per sweep.

Table 21. Densities of eels estimated from electrofishing surveys on the Tabusintac River, 1999-2001.

Site	Date	Area (m^2)	Number of eels per sweep in sweep no.					Eels/ 100 m^2[b]
			0.5[a]	1	2	3	4	
3	3 Aug 99	135	0					0.00
4	3 Aug 99	127	0					0.00
6	3 Aug 99	216	0	0	0	0		0.00
7	3 Aug 99	378	0	0	0	0		0.00
9	3 Aug 99	177	0					0.00
33	3 Aug 99	213	0					0.00
1	6 Aug 99	232	0	0	0	0		0.00
8	6 Aug 99	116	0					0.00
13	9 Aug 99	118	0					0.00
16	9 Aug 99	142	0					0.00
97	9 Aug 99	186	0					0.00
98	9 Aug 99	111	0					0.00
99	9 Aug 99	115	0					0.00
91	10 Aug 99	121	0					0.00
92	10 Aug 99	126	0					0.00
93	10 Aug 99	117	0					0.00
94	10 Aug 99	59	0					0.00
95	10 Aug 99	67	0					0.00
96	10 Aug 99	74	0					0.00
88	11 Aug 99	245	0					0.00
89	11 Aug 99	86	0					0.00
90	11 Aug 99	93	0					0.00
85	12 Aug 99	183	0					0.00
86	12 Aug 99	154	0					0.00
87	12 Aug 99	70	0					0.00
16	31 Jul 00	142	0					0.00
7	1 Aug 00	378	1	0	0	0		0.34
97	1 Aug 00	186	0					0.00
8	2 Aug 00	116	0					0.00
33	2 Aug 00	213	0					0.00
89	2 Aug 00	86	0					0.00
90	2 Aug 00	93	0					0.00
4	3 Aug 00	127	0					0.00
9	3 Aug 00	177	0					0.00
88	3 Aug 00	245	0					0.00
13	4 Aug 00	118	0					0.00
98	4 Aug 00	111	0					0.00
99	4 Aug 00	115	0					0.00
1	8 Aug 00	232	0	0	0	0		0.00
6	9 Aug 00	216	0	0	0	0		0.00
3	10 Aug 00	135	0					0.00
86	10 Aug 00	154	0					0.00
85	11 Aug 00	183	0					0.00
87	11 Aug 00	70	0					0.00
93	14 Aug 00	117	0					0.00
96	14 Aug 00	74	0					0.00
150	15 Aug 00		0					0.00
92	16 Aug 00	126	0					0.00
999	16 Aug 00		0					0.00
7	31 Jul 01	378	0	0	0	0		0.00
1	1 Aug 01	232	0	0	0	0	0	0.00
6	3 Aug 01	216	0	0	0	0		0.00
13	7 Aug 01	118	0					0.00
16	7 Aug 01	142	0					0.00
98	7 Aug 01	111	0					0.00
99	7 Aug 01	115	0					0.00
3	8 Aug 01	135	0					0.00
4	8 Aug 01	127	0					0.00
9	8 Aug 01	177	0					0.00
88	8 Aug 01	245	0					0.00
97	8 Aug 01	186	0					0.00
8	9 Aug 01	116	0					0.00
33	9 Aug 01	213	0					0.00
89	9 Aug 01	86	0					0.00
90	9 Aug 01	93	0					0.00
85	18 Sep 01	183	0					0.00
86	18 Sep 01	154	0					0.00
87	18 Sep 01	70	0					0.00
92	19 Sep 01	126	0					0.00
93	19 Sep 01	117	0					0.00
96	19 Sep 01	74	0					0.00
999	19 Sep 01		0					0.00

[a]Sweep 0.5 is a sweep without barrier nets that is conducted alone, or conducted prior to regular Zippin sweeps.

[b]Calculated by applying conversion factors for southern Gulf data (Table 21) to counts per sweep.

Table 22. Densities of eels estimated from electrofishing surveys on the Miramichi River, 1952-2006

Branch[a]	Site	Date	Area (m^2)[b]	Number of eels per sweep in sweep no						Zippin pop. est.		Eels/ 100 m^2[c]
				0.5[c]	1	2	3	4	5	6	Pop.	±90% CI	
Dun	1	29 Aug 52	530	0	0	0	0	0	0				0.00
Dun	3	8 Sep 52	1,066	2	1	1	1				8.02		0.75
Dun	4	6 Sep 52	878	3	2	2	0	0			7.24		0.83
Dun	5	3 Sep 52	1,094	4	2	4	2	1			18.75		1.71
Dun	6	1 Sep 52	1,059	8	3	0	1				12.21		1.15
MWM	21	23 Aug 52	678	0	0	0	0	0					0.00
MWM	27	27 Aug 52	872	0	0	0	0	0					0.00
MWM	28	11 Sep 52	1,359	24	13	2	7				50.78	9.50	3.74
MWM	30	25 Aug 52	1,421	0	0	0	0	0					0.00
MWM	33	20 Aug 52	1,264	0	0	0	0	0					0.00
MWM	34	10 Sep 52	941	1	1	0	4						0.74
MWM	36	15 Aug 52	487	0	0	0	0	0					0.00
NWM	155	22 Aug 52	1,270	0	0	0	0	0					0.00
NWM	14a	18 Aug 52	1,181	0	0	0	0	0					0.00
NWM	15a	26 Aug 52	2,005	0	0	0	0						0.00
Dun	2a	30 Aug 52	864	0	0	0	0	0					0.00
Dun	1	3 Sep 53	544	2	0	0	0	0					0.41
Dun	3	6 Sep 53	1,084	2	0	0	0	0					0.21
Dun	4	8 Sep 53	885	2	1	0	0	1			4.62		0.52
Dun	5	4 Sep 53	1,094	3	1	0	0	1			5.31		0.49
Dun	6	31 Aug 53	1,045	5	3	2	1	0			11.48		1.10
MWM	21	28 Aug 53	671	2	1	1	0	0			4.09		0.61
MWM	27	15 Aug 53	953	12	4	0	1				17.16		1.80
MWM	28	14 Aug 53	1,389	15	4	2	4				27.30		1.97
MWM	30	13 Aug 53	1,407	8	3	2	2				16.88		1.20
MWM	33	25 Aug 53	1,272	7	3	3	1				15.68		1.23
MWM	34	18 Aug 53	971	5	2	0	2				10.25		1.06
MWM	36	20 Aug 53	499	5	4	1	0				10.33		2.07
NWM	155	27 Aug 53	1,319	1	2	1	0				4.92		0.37
NWM	14a	22 Aug 53	1,197	3	3	4	2				51.22		4.28
NWM	15a	17 Aug 53	2,039	12	10	8	2				39.34		1.93
Dun	2a	2 Sep 53	865	0	0	0	0	0					0.00
Dun	3	28 Sep 54	1,119	0									0.00
MWM	21	2 Sep 54	695	0	0	0	0	0					0.00
MWM	30	10 Sep 54	1,442	7	3	0					10.18		0.71
MWM	33	6 Sep 54	711	3	0	0	0						0.49
MWM	34	3 Sep 54	982	3	3	0					6.53		0.67
MWM	36	27 Aug 54	499	3	1	0	0	0			4.00		0.80
NWM	155	8 Sep 54	1,340	1	0	0	0	0					0.08
NWM	14a	1 Sep 54	711	0	0	0	0						0.00
Dun	2a	24 Sep 54	934	1	0	0	0						0.13
Dun	A	10 Oct 54	725	1	0	0	0	0					0.15
Dun	1	31 Aug 55	523	1	0	0	0	0					0.21
Dun	3	20 Sep 55	1,199	1	0	0	0	0					0.09
Dun	5	26 Aug 55	1,150	6	4	0	0	5	0		17.43		1.52
Dun	6	24 Aug 55	1,373	4	3	0	0	0			7.02		0.51
Cains	9	23 Sep 55	1,254	8	7	4	2	1			24.29		1.94
Ren	13	14 Sep 55	1,183	12	1	1	0	0			14.00		1.18
Ren	54	10 Sep 55	518	4	4	2	3	0			15.49		2.99
Cains	76	22 Sep 55	610	0	0	0	0	0	0				0.00
Cains	78	27 Sep 55	690	0	0	0	0	0	0				0.00
Ren	12a	13 Sep 55	549	1	0	0	0	0	0				0.19
Dun	2a	30 Aug 55	934	1	0	0	0	0					0.12
Cains	7a	29 Sep 55	307	0	0	0	0	0	0				0.00
Cains	8a	28 Sep 55	451	0	0	0	0	0					0.00
Dun	A	29 Aug 55	773	0	1	0	0	0	0		1.02		0.13
Dun	1	11 Sep 56	413	0	0	0	0	0					0.00
Dun	3	10 Oct 56	1,117	0	0	0	0	0					0.00
Dun	5	6 Sep 56	743	0	0	1	0	1	0				0.28
Dun	6	5 Sep 56	1,099	1	1	0	0	0	0		2.00		0.18
Cains	9	5 Oct 56	1,258	12	7	3	5				34.34		2.73
Ren	13	26 Sep 56	1,233	0	0	1	1	0					0.18
Ren	54	24 Sep 56	539	0	0	2	0	0	0		3.08		0.57
Cains	76	14 Sep 56	602	4	2	3	1	1	1		14.35		2.38
Cains	78	21 Sep 56	757	1	0	0	0	0	0				0.14
Ren	12a	27 Sep 56	339	0	0	0	0	0					0.00
Dun	2a	10 Sep 56	941	0	0	0	0	0					0.00
Cains	7a	20 Sep 56	321	0	0	0	0	0					0.00
Cains	8a	19 Sep 56	646	0	0	0	0	0					0.00
Dun	A	12 Sep 56	488	0	0	0	1	0					0.23
Cains	9	11 Sep 57	1,258	6	0	0	0	0					0.53
Ren	13	6 Sep 57	996	0	0	0	0	0	0				0.00
Ren	54	3 Sep 57	535	0	0	0	0	0					0.00
Cains	76	10 Sep 57	510	3	0	1	0	0	0		4.01		0.79
Cains	78	12 Sep 57	748	0	0	0	0	0	0				0.00
Ren	12a	4 Sep 57	344	3	1	0	0	0			4.00		1.16
Cains	8a	16 Sep 57	460	0	0	1	0	0					0.24
Cains	8a	17 Sep 57	369	0	0	0	0	0					0.00
Cains	9	4 Sep 58	1,070	17	6	2	3	3			32.94		3.08
Ren	13	3 Sep 58	1108	2	1	0	0	1			4.62		0.42
Ren	54	28 Aug 58	494	0	0	0	0						0.00
Cains	76	5 Sep 58	548	3	2	0	0	0	0	0	5.00		0.91
Cains	78	8 Sep 58	524	0	0	0	0	0	0	0			0.00
Ren	12a	28 Aug 58	409	0	0	0	0	0					0.00
Cains	7a	9 Sep 58	269	0	0	0	0						0.00
Cains	8a	10 Sep 58	650	0	0	0	0						0.00
Cains	9	4 Jul 59	1,083	4	1	2	1	0			8.50		0.78
Ren	13	5 Aug 59	947	1	0	3	1	0	0		6.45		0.68
Ren	54	7 Aug 59	535	1	0	2	0	0	1		9.91		1.85
Cains	76	3 Aug 59	552	6	3	3	3	1	2		22.88		4.15
Cains	78	31 Jul 59	530	2	0	0	1	0	0		3.07		0.58
Ren	12a	6 Aug 59	386	1	0	0	0	0					0.29
Cains	7a	30 Jul 59	265	2	0	0	4	1					2.94
Cains	8a	29 Jul 59	618	3	0	0	0	0	0				0.50
Cains	9	31 Aug 60	969	9	8	5	8	2	2		42.86		4.43
SWM	10	24 Aug 60	426	0	0	0	0	0	1				0.24
SWM	11	25 Aug 60	429	0	1	0	0	0	0		1.02		0.24
Ren	13	3 Aug 60	983	1	1	0	0	0	0		2.00		0.20
Ren	54	5 Aug 60	517	1	0	0	0	0	0				0.20
Cains	76	30 Aug 60	523	7	3	0	1	1	0		12.14		2.32
Cains	78	29 Aug 60	502	0	0	0	1	2	0				0.61
Ren	12a	4 Aug 60	372	0	0	0	0	0	1				0.28
Cains	7a	22 Aug 60	228	0	0	0	0	0	0				0.00
Cains	8a	23 Aug 60	525	0	0	0	0	0	0				0.00
Cains	9	3 Aug 61	1,049	8	2	5	3	1	0		20.32		1.94
SWM	10	31 Aug 61	510	0	0	0	0	0	0				0.00
SWM	11	1 Sep 61	413	0	0	0	0	0	1				0.25
Ren	13	7 Aug 61	808	0	0	3	0	0	0		4.62		0.57
MWM	30	31 Oct 61	547	0	0	0	0	0	0				0.00
Ren	54	4 Aug 61	561	0	0	0	0	0	0				0.00
Cains	76	2 Aug 61	610	1	2	2	0	0			5.65		0.93
Cains	78	25 Aug 61	457	1	1	0	0	0	0		2.00		0.44
Ren	12a	8 Aug 61	344	0	0	0	0	0	0				0.00
Cains	7a	29 Aug 61	265	0	0	0	0	0	0				0.00
Cains	8a	30 Aug 61	569	0	0	1	0	0	0		1.54		0.27
SWM	B	28 Aug 61	232	0	0	0	0	0	0				0.00
SWM	10	3 Oct 62	589	0	0	0	0	0	0				0.00
Ren	13	27 Sep 62	972	1	4	1	0	0			6.38		0.66
Ren	54	26 Sep 62	661	0	0	0	2	0	0				0.31
Cains	76	28 Sep 61	673	0	0	0	0	0	0				0.00
Cains	78	12 Oct 61	557	0	0	0	0	0	0				0.00
Ren	12a	24 Sep 62	399	0	0	0	0	0					0.00
Cains	7a	22 Aug 62	279	0	0	0	0	0	0				0.00
Cains	8a	5 Oct 62	625	0	0	0	0	0	0				0.00
SWM	B	16 Aug 62	279	0	0	0	0	0	0				0.00
SWM	C	4 Oct 62	442	0	0	1	0	0	0		1.54		0.35
MWM	22	13 Aug 63	297	0	0	0	0	0	0				0.00
MWM	28	26 Sep 63	885	1	0	0	0	1	1				0.35
MWM	30	19 Aug 63	521	2	1	0	2	2	0		13.37		2.56
MWM	33	24 Sep 63	457	0	0	0	0	1	0				0.22
MWM	34	22 Aug 63	602	0	0	0	0	0	0				0.00
MWM	36	20 Aug 63	409	0	0	0	0	0	0				0.00
NWM	155	27 Sep 63	718	1	0	0	0	0	0				0.14
NWM	14a	21 Aug 63	550	1	1	1	0	0	0		3.07		0.56
NWM	15a	25 Sep 63	909	0	0	0	0	0	0				0.00
NWM	17	12 Aug 64	271	11	3	4	1	0	0		19.14		7.07
MWM	22	21 Aug 64	228	0	0	0	0	0	0				0.00
MWM	22	21 Aug 64	228	0	0	0	0	0	0				0.00
MWM	24	17 Aug 64	334	7	0	0	2	0	1		10.34		3.09
MWM	26	11 Aug 64	361	3	0	0	0	1	0		4.09		1.14
MWM	27	18 Aug 64	325	0	0	0	0	0	0				0.00
MWM	28	20 Aug 64	878	1	0	1	0	0			2.13		0.24
MWM	30	26 Aug 64	401	1	0	1	0	0	1		10.32		2.58
MWM	33	4 Sep 64	457	1	0	0	0	0	0				0.22
MWM	33	4 Sep 64	457	1	0	0	0	0	0				0.22
MWM	34	1 Sep 64	606	0	0	0	0	0	0				0.00
MWM	36	2 Sep 64	404	0	0	0	0	0	1				0.25
MWM	36	2 Sep 64	404	0	0	0	0	0	1				0.25
NWM	155	25 Aug 64	610	0	1	0	1	0					0.37
NWM	14a	31 Aug 64	547	0	0	0	1	0	0				0.19
NWM	14a	31 Aug 64	547	0	0	0	1	0	0				0.19
NWM	15a	19 Aug 64	885	1	1	0	1	0	0		3.22		0.36
NWM	17	18 Aug 65	277	5	0	1	1	0	0		7.04		2.54
MWM	22	11 Aug 65	260	0	0	0	0	0	0				0.00
MWM	22	11 Aug 65	260	0	0	0	0	0	0				0.00
MWM	24	2 Sep 65	351	3	3	1	1	1	1		12.16		3.46
MWM	28	4 Aug 65	361	0	0	0	0	0	0				0.00
MWM	26	4 Aug 65	361	0	0	0	0	0	0				0.00
MWM	27	13 Aug 65	361	0	0	0	0	0	0				0.00
MWM	28	5 Aug 65	864	3	2	0	2	0	0		7.28		0.84
MWM	30	12 Aug 65	393.7	2	0	0	1	0	0		3.07		0.78
MWM	33	31 Aug 65	465	0	0	0	0	0	0				0.00

Table 22 (continued)

Branch[a]	Site	Date	Area (m^2)[b]	Number of eels per sweep in sweep no.						Zippin pop. est. Pop.	±90% CI	Eels/ 100 m^2[c]
				0.5[c]	1	2	3	4	5	6			
MWM	34	25 Aug 65	617	0	0	0	0	0	0				0.00
MWM	34	25 Aug 65	617	0	0	0	0	0	0				0.00
MWM	36	24 Aug 64	418	0	0	0	0	0	0				0.00
MWM	36	24 Aug 65	418	0	0	0	0	0	0				0.00
NWM	155	1 Sep 65	348	0	2	2	0	0	1	10.81			3.10
NWM	14a	30 Aug 65	557	0	0	0	0	0	0				0.00
NWM	14a	30 Aug 65	557	0	0	0	0	0	0				0.00
NWM	15a	6 Aug 65	794	1	1	0	0	0	0	2.00			0.25
NWM	16a	16 Aug 65	268	4	1	2	0	0	0	7.04			2.63
NWM	17	15 Aug 66	240	8	0	3	1	1	1	14.89			6.21
MWM	22	18 Aug 66	274	0	0	0	0	0	0				0.00
MWM	22	18 Aug 66	274	0	0	0	0	0	0				0.00
MWM	24	16 Aug 66	318	8	2	1	1	0	0	2.03			0.64
MWM	26	8 Aug 66	354	1	0	0	0	0	0				0.29
MWM	26	8 Aug 66	354	1	0	0	0	0	0				0.29
MWM	27	19 Aug 66	315	0	0	0	0	0	0				0.00
MWM	28	9 Aug 66	829	8	3	1	0	0	1	13.11			1.58
MWM	30	11 Aug 66	387	0	1	1	0	0	0	2.24			0.58
MWM	32	31 Aug 66	401	0	0	1	0	0	0	1.54			0.38
MWM	33	30 Aug 66	457	2	0	0	2	0	0	4.48			0.98
MWM	34	23 Aug 66	606	0	0	0	0	0	0				0.00
MWM	34	23 Aug 66	606	0	0	0	0	0	0				0.00
MWM	36	22 Aug 64	404	0	0	0	0	0	0				0.00
MWM	36	22 Aug 66	404	0	0	0	0	0	0				0.00
NWM	14a	25 Aug 66	550	0	0	0	0	0	0				0.00
NWM	14a	25 Aug 66	550	0	0	0	0	0	0				0.00
NWM	15a	10 Aug 66	794	0	1	1	0	0	0	2.24			0.28
NWM	15a	10 Aug 66	794	0	1	1	0	0	0	2.24			0.28
NWM	16a	12 Aug 66	242	1	1	0	0	0	0	2.00			0.83
NWM	17	15 Aug 67	308	5	1	1	1	0	1	13.14			4.26
MWM	22	8 Aug 67	288	0	0	0		0	0				0.00
MWM	24	21 Aug 67	304	3	0	2		3	0	9.39			3.09
MWM	26	10 Aug 67	353	1	1	0		0	0	2.00			0.57
MWM	27	24 Aug 67	296	0	0	0							0.00
MWM	28	17 Aug 67	787	6	6	2			0	15.27			1.94
MWM	29	9 Aug 67	390	0	1	0				1.06			0.27
MWM	32	22 Aug 67	396	5	2	0			1	8.03			2.03
MWM	33	23 Aug 67	463	2	1	1	0		0	4.03			0.87
MWM	34	30 Aug 67	628	0	1	0	0	0	0	1.02			0.16
MWM	35	29 Aug 67	337	1	0	0	0	0	0				0.30
MWM	36	31 Aug 67	390	0	0	0	0	0	0				0.00
NWM	14a	1 Sep 67	547	0	0	0	0	1	0				0.19
NWM	15a	16 Aug 67	784	0	0	0	0	0					0.00
NWM	16a	18 Aug 67	248	2	2	0	0	0	0	4.01			1.61
NWM	17	23 Aug 68	308	5	1	2	2	1	1	14.35			4.66
MWM	22	16 Aug 68	283	0	0	0	0	0	0				0.00
MWM	24	22 Aug 68	304	1	1	0	1	2	0	2.69			0.88
MWM	26	14 Aug 68	337	1	1	0	0	0	0	2.00			0.59
MWM	27	19 Aug 68	241	0	0	1	0	0					0.46
MWM	28	20 Aug 68	780	4	0	0	0	1	0	5.05			0.65
MWM	29	13 Aug 68	415	0	1	1	0	0	0	2.24			0.54
MWM	30	13 Aug 68	526	0	0	0	0	0	0				0.00
MWM	32	3 Sep 68	396	0	0	0	0	0					0.00
MWM	33	30 Aug 68	463	2	2	2	1	0	0	7.44			1.61
MWM	34	28 Aug 68	628	0	0	0	1	0	0				0.16
MWM	35	26 Aug 68	309	0	0	0	0	0	0				0.00
MWM	36	27 Aug 68	404	0	0	0	0	0	0				0.00
NWM	14a	28 Aug 68	547	0	0	0	0	0	0				0.00
NWM	15a	15 Aug 68	690	3	0	0	0						0.51
NWM	16a	21 Aug 68	234	1	0	4	0	1	0	9.24			3.95
NWM	17	15 Aug 69	308	3	0	1	0	0	1	5.45			1.77
MWM	22	12 Aug 69	376	0	0	0	0	0	0				0.00
MWM	24	11 Aug 69	351	3	4	0	1	1		10.27			2.93
MWM	26	6 Aug 69	337	0	1	0	0	0		1.06			0.32
MWM	27	14 Aug 69	2,209	1	0	0	0	0	0				0.05
MWM	28	19 Aug 69	913	4	0	0	4						1.02
MWM	29	22 Aug 69	415	1	0	0	1	0		2.76			0.67
MWM	30	22 Aug 69	526	0	0	0	0	0	0				0.00
MWM	32	20 Aug 69	509	1	0	1	0	0		2.13			0.42
MWM	33	21 Aug 69	452	1	1	1	0	0	1	1.36			0.30
MWM	34	25 Aug 69	690	0	1	1	0	0	0	2.24			0.33
MWM	35	28 Aug 69	309	0	0	0	0	0	0				0.00
MWM	35	29 Aug 69	309	1	0	0	0	0	0				0.33
MWM	36	26 Aug 69	404	0	0	0	0	0	0				0.00
NWM	14a	27 Aug 69	547	1	0	0	1	0	0	2.24			0.41
NWM	15a	18 Aug 69	842	0	0	0	0	0					0.00
NWM	16a	13 Aug 69	278	1	0	0	0	0	0				0.37
Main	4	1 Sep 70	128	1	0	0	0						0.91
Main	5	1 Sep 70	215	0	0	0	0						0.00
Main	6	27 Aug 70	146	0	0	0	0						0.00
Main	9	2 Jul 70	318	0	0	0	0	0					0.00

Branch[a]	Site	Date	Area (m^2)[b]	Number of eels per sweep in sweep no.							Zippin pop. est. Pop.	±90% CI	Eels/ 100 m^2[c]
				0.5[c]	1	2	3	4	5	6			
Main	10	1 Jul 70	326		2	1	0	2	0		6.33		1.94
NWM	17	11 Sep 70	93		0	1	0	0			1.23		1.32
MWM	22	13 Aug 70	358		1	0	0	0	0	0			0.29
MWM	23	2 Sep 70	240		0	1	1	0	1				1.39
MWM	24	21 Aug 70	307		10	2	1	0	0	0	13.00		4.24
MWM	26	10 Aug 70	374		0	0	0	0	0	0			0.00
MWM	27	18 Aug 70	260		0	0	0	0	0	0			0.00
MWM	28	2 Sep 70	871		0	0	0	0	0	0			0.00
MWM	29	3 Aug 70	488		0	0	0	0	0	0			0.00
MWM	30	3 Sep 70	484		0	0	0	0	0	0			0.00
MWM	32	20 Aug 70	396		1	1	0	0	0	0	2.00		0.51
MWM	33	28 Aug 70	465		0	0	0	1	0	1			0.44
MWM	34	11 Aug 70	602		2	0	2	0	0	0	4.09		0.68
MWM	35	27 Aug 70	309		0	0	0	0	0	0			0.00
MWM	36	26 Aug 70	395		0	0	0	0	0	0			0.00
MWM	40	21 Aug 70	345		3	0	1	0	0		4.02		1.17
MWM	41	20 Aug 70	326		0	0	0	0	0				0.00
MWM	42	19 Aug 70	378		2	1	0	0	0		3.00		0.79
SWM	47	10 Aug 70	371		1	1	1	0	0		3.19		0.86
SWM	48	17 Aug 70	268		0	0	0	0	0				0.00
SWM	49	26 Aug 70	289		0	0	0	0	0				0.00
SWM	51	14 Aug 70	190		0	0	0	0	0				0.00
Ren	54	24 Aug 70	231		0	0	0	0	0				0.00
SWM	58	28 Jul 70	715		0	0	0	0					0.00
SWM	59	29 Jul 70	379		0	0	0	0	0				0.00
SWM	60	30 Jul 70	264		0	0	0	0					0.00
SWM	61	31 Jul 70	265		0	0	0	0	0				0.00
SWM	62	5 Aug 70	341		0	0	0	0	0				0.00
SWM	63	6 Aug 70	294		1	0	0	0	0				0.38
SWM	64	7 Aug 70	192		1	0	0	0	0				0.58
SWM	65	11 Aug 70	541		1	0	0	0	0				0.21
SWM	66	18 Aug 70	315		1	0	0	0	0				0.35
SWM	67	19 Aug 70	316		0	0	0	0	0				0.00
SWM	68	20 Aug 70	438		0	0	0	0	0				0.00
SWM	69	25 Aug 70	174		0	0	0	0	0				0.00
SWM	70	27 Aug 70	398		0	0	0	0	0				0.00
SWM	71	28 Aug 70	269		0	0	1	0	0				0.41
SWM	72	6 Jul 70	143		0	0	0	0	0				0.00
SWM	73	17 Jul 70	104		0	0	0	0					0.00
SWM	79	6 Aug 70	292		0	0	0	0					0.00
SWM	80	22 Jul 70	346		0	0	0	0	0				0.00
SWM	81	21 Jul 70	316		1	0	0	0					0.37
SWM	82	5 Aug 70	305		1	0	1	1	0		5.27		1.72
SWM	83	4 Aug 70	307		0	0	0	0					0.00
SWM	89	9 Jul 70	162		0	0	0	0	0				0.00
SWM	90	10 Jul 70	128		0	0	0	0	0				0.00
SWM	91	24 Jul 70	248		0	0	0	0	0				0.00
SWM	92	23 Jul 70	282		0	0	0	0	0				0.00
SWM	93	14 Jul 70	326		0	0	0	0					0.00
SWM	95	8 Jul 70	235		0	0	0	0	0				0.00
SWM	96	7 Jul 70	217		0	0	0	0	0				0.00
NWM	14a	25 Aug 70	547		0	0	0	1	0	0			0.19
NWM	15a	19 Aug 70	709		0	0	0	0	0				0.00
NWM	16a	17 Aug 70	237		1	2	0	0	0	0	3.01		1.27
Cains	7a	29 Jun 70	328		0	0	0	0	0				0.00
Main	8a	30 Jun 70	385		0	0	0	0	0				0.00
Main	3	10 Sep 71	289		0	0	0	0					0.00
Main	4	15 Sep 71	116		0	0	0	0	0				0.00
Main	5	2 Sep 71	145		0	0	0	0					0.00
Main	6	2 Sep 71	134		0	1	2	0					2.61
Main	9	8 Jul 71	324		0	0	0	0	0				0.00
Main	10	17 Sep 71	277		0	1	0	0			1.23		0.44
Main	13	8 Sep 71	294		10	6	3	5			33.89		11.53
NWM	17	20 Aug 71	308		4	0	1	0	0	0	5.00		1.62
Main	17	16 Sep 71	178		1	2	2	5					6.55
MWM	20	7 Jul 71	317		0	0	0	0	0				0.00
MWM	22	16 Aug 71	302		1	0	0	0	0	0			0.34
MWM	23	24 Jun 71	238		3	0	0	0	0				1.40
MWM	24	12 Aug 71	304		1	2	0	1	0		4.62		1.52
MWM	26	10 Aug 71	354		1	0	0	0	0	0			0.29
MWM	27	13 Aug 71	306		0	0	0	0	0				0.00
MWM	28	18 Aug 71	787		1	0	0	0	0				0.14
MWM	29	23 Aug 71	425		1	1	0	0			2.04		0.48
MWM	30	23 Aug 71	519		1	1	1	0	0		3.19		0.61
MWM	32	19 Aug 71	396		0	0	0	1	1	0			0.52
MWM	33	31 Aug 71	477		1	0	1	1	0	0	3.59		0.75
MWM	34	26 Aug 71	643		0	0	0	0	1	0			0.16
MWM	35	24 Aug 71	326		0	0	0	0	0	0			0.00
MWM	36	25 Aug 71	413		0	0	0	0	0	0			0.00
MWM	40	15 Jul 71	418		1	2	0	0	0		3.04		0.73
MWM	41	29 Jun 71	445		0	1	0	0	0		1.06		0.24

Table 22 (continued)

Branch[a]	Site	Date	Area (m^2)[b]	Number of eels per sweep in sweep no.						Zippin pop. est.		Eels/ 100 m^2
				0.5[c]	1	2	3	4	5	6	Pop.	±90% CI	
MWM	42	30 Jun 71	372	3	1	0	0	0			4.00		1.08
MWM	43	25 Jun 71	410	2	0	0	0	0					0.54
MWM	44	28 Jun 71	381	0	0	0	0	0					0.00
MWM	45	23 Jun 71	354	4	0	0	0	0					1.26
MWM	46	22 Jun 71	306	0	0	0	0	0					0.00
SWM	47	23 Jul 71	371	7	2	3	3	1			19.11		5.15
SWM	48	15 Jul 71	300	3	1	0	1				5.46		1.82
SWM	49	4 Aug 71	326	0	0	1	0	0					0.34
SWM	50	27 Aug 71	393	0	0	0	0	0					0.00
SWM	51	8 Jul 71	251	0	0	0	0	0					0.00
SWM	58	27 Jul 71	579	0	0	0	0	0					0.00
SWM	59	5 Aug 71	371	0	0	0	0	0					0.00
SWM	60	20 Jul 71	260	0	0	0	0	0					0.00
SWM	61	22 Jul 71	266	0	0	0	0						0.00
SWM	62	7 Jul 71	379	0	0	0	0	0					0.00
SWM	63	19 Aug 71	307	0	2	0	0	0			2.13		0.69
SWM	64	16 Jul 71	230	0	0	0	0	0					0.00
SWM	65	19 Jul 71	278	0	0	0	0	0					0.00
SWM	66	21 Jul 71	297	0	0	0	0	0					0.00
SWM	67	6 Aug 71	334	0	0	0	0	0					0.00
SWM	68	13 Aug 71	435	0	0	0	0	0					0.00
SWM	69	18 Aug 71	315	0	0	0	0	0					0.00
SWM	70	8 Jul 71	324	2	1	0	0	0			3.00		0.93
SWM	71	28 Jul 71	334	0	0	0	0	0					0.00
SWM	72	27 Aug 71	242	0	0	0	0	0					0.00
SWM	73	20 Aug 71	101	0	0	0	0						0.00
SWM	75	1 Sep 71	440	0	0	0	0						0.00
SWM	76	19 Aug 71	215	0	0	0	0	0					0.00
SWM	77	11 Aug 71	350	1	0	0	0	0					0.32
SWM	78	16 Aug 71	220	0	0	0	0	0					0.00
SWM	79	21 Jul 71	278	1	0	0	0	0					0.40
SWM	80	2 Aug 71	421	0	0	0	0						0.00
SWM	81	22 Jul 71	417	1	0	0	0						0.28
SWM	82	23 Jul 71	328	0	0	0	0	0					0.00
SWM	83	26 Jul 71	332	0	0	0	0	0					0.00
SWM	84	24 Aug 71	220	0	0	1	0	0					0.51
SWM	85	24 Aug 71	310	0	0	0	0	0					0.00
SWM	89	5 Aug 71	268	0	0	0	0	0					0.00
SWM	90	28 Jul 71	231	0	0	0	0	0					0.00
SWM	91	29 Jul 71	250	0	0	0	0	0					0.00
SWM	92	23 Aug 71	252	0	0	0	0						0.00
SWM	93	4 Aug 71	271	0	0	0	0						0.00
SWM	94	26 Aug 71	303	0	0	0	0	0					0.00
SWM	95	12 Jul 71	253	1	0	1	0	0			2.13		0.84
SWM	96	19 Jul 71	289	0	0	0	0	0					0.00
SWM	97	1 Sep 71	400	6	1	4	4				54.71		13.68
SWM	98	31 Aug 71	294	7	5	3	7				162.47		55.30
Ren	12a	7 Sep 71	329	6	8	10	6	1			49.51		15.03
NWM	14a	27 Aug 71	557	0	0	0	0	0	0				0.00
NWM	14a	30 Aug 71	263	3	8	4	2				35.04		13.31
NWM	15a	17 Aug 71	696	1	0	0	1	0			2.76		0.40
NWM	15a	30 Aug 71	334	5	0	0	0						1.75
NWM	16a	11 Aug 71	298	3	0	2	1	0	0		6.26		2.10
NWM	16a	16 Sep 71	350	15	3	3	1				22.52		6.44
Dun	2a	9 Sep 71	348	1	0	0	1	0			2.76		0.79
Cains	7a	30 Jul 71	353	0	1	0	0	0			1.06		0.30
Main	8a	9 Jul 71	338	1	0	0	0	1					0.66
Main	3	8 Sep 72	333	1	0	2	0				7.23		2.17
Main	4	14 Jul 72	116	0	0	0	0	0					0.00
Main	5	28 Jun 72	205	0	1	0	0				1.23		0.60
Main	6	28 Jun 72	168	0	0	0	0						0.00
Main	9	31 Jul 72	289	0	0	0	0	0					0.00
Main	10	26 Jul 72	365	3	2	1	2				14.42		3.95
Main	11	25 Aug 72	347	0	0	0	0						0.00
Main	13	14 Sep 72	383	14	7	6	4	3			39.59		10.33
Main	17	18 Sep 72	329	5	1	4	6						5.67
NWM	17	4 Oct 72	339	0	0	0	0	0					0.00
MWM	18	21 Sep 72	402	0	1	0	0	0			1.06		0.26
MWM	22	11 Aug 72	353	2	1	0	3	1	0		10.78		3.05
MWM	23	10 Aug 72	252	3	7	5	2	1			24.88		9.88
MWM	24	1 Sep 72	298	1	1	2	1	0			7.83		2.63
MWM	26	9 Aug 72	367	1	0	1	0	0	0		2.05		0.56
MWM	27	30 Aug 72	312	1	0	0	0	0					0.36
MWM	28	22 Aug 72	801	2	1	1	0	0			4.09		0.51
MWM	29	10 Aug 72	550	0	0	0	2	0					0.40
MWM	30	10 Aug 72	557	0	0	0	0	0					0.00
MWM	32	31 Aug 72	404	1	1	0	0	0			2.01		0.50
MWM	33	18 Aug 72	477	1	0	1	1	0	0		3.59		0.75
MWM	34	15 Aug 72	732	1	0	0	0	0	0				0.14
MWM	35	17 Aug 72	324	0	0	0	0	0	0				0.00
MWM	36	14 Aug 72	418	0	0	0	0	0	0				0.00

Branch[a]	Site	Date	Area (m^2)[b]	Number of eels per sweep in sweep no.						Zippin pop. est.		Eels/ 100 m^2
				0.5[c]	1	2	3	4	5	6	Pop.	±90% CI	
MWM	40	13 Sep 72	397	0	2	0	0	0			2.13		0.53
MWM	41	11 Sep 72	521	0	0	0	0	0					0.00
MWM	42	12 Sep 72	353	0	1	0	0	0			1.06		0.30
MWM	43	18 Aug 72	347	0	0	0	0	0					0.00
MWM	44	21 Aug 72	241	1	1	0	2	0			8.56		3.55
MWM	45	15 Aug 72	238	2	1	1	0	0			4.09		1.72
MWM	46	16 Aug 72	273	0	0	0	0						0.00
SWM	47	14 Jul 72	242	0	0	1	0						0.48
SWM	48	4 Aug 72	257	3	0	0	1	1			6.33		2.46
SWM	49	18 Jul 72	377	0	0	0	0	0					0.00
SWM	52	22 Aug 72	280	1	0	1	0	1					1.19
SWM	58	2 Aug 72	575	0	0	0	0	0					0.00
SWM	59	24 Jul 72	371	0	0	0	0	0					0.00
SWM	60	27 Jul 72	292	0	0	0	0	0					0.00
SWM	61	13 Jul 72	258	1	0	0	0						0.45
SWM	62	11 Jul 72	259	0	1	0	0	0			1.06		0.41
SWM	63	10 Aug 72	241	5	4	1	0	0			10.09		4.19
SWM	65	8 Aug 72	407	0	0	0	0	0					0.00
SWM	66	9 Aug 72	234	0	0	0	0	0					0.00
SWM	67	25 Jul 72	482	0	0	0	0						0.00
SWM	68	14 Aug 72	299	0	0	0	0						0.00
SWM	69	15 Aug 72	327	0	0	0	0						0.00
SWM	70	1 Aug 72	478	0	0	1	0						0.24
SWM	72	23 Jun 72	275	0	0	0	0						0.00
SWM	73	22 Jun 72	131	0	0	0	0						0.00
SWM	74	31 Aug 72	335	0	0	0	0	0					0.00
SWM	75	29 Aug 72	167	1	0	1	0				2.46		1.48
SWM	76	17 Aug 72	223	2	1	0	1	0			4.25		1.90
SWM	77	16 Aug 72	269	1	0	0	0	0					0.41
SWM	79	11 Jul 72	298	1	0	0	0	0					0.37
SWM	80	13 Jul 72	414	0	0	0	0						0.00
SWM	81	6 Jul 72	346	0	1	0	0	0			1.06		0.31
SWM	82	5 Sep 72	308	0	0	0	0	0					0.00
SWM	83	31 Aug 72	356	0	0	0	0	0					0.00
SWM	84	17 Aug 72	358	2	1	1	0	1			6.33		1.77
SWM	85	29 Aug 72	359	0	0	0	0	0					0.00
SWM	86	25 Jul 72	386	1	2	0	1	0			4.62		1.20
SWM	87	3 Aug 72	370	0	1	1	0	0			2.76		0.75
SWM	88	24 Jul 72	328	0	0	0	0	0					0.00
SWM	89	28 Aug 72	369	0	0	0	0	0					0.00
SWM	90	22 Aug 72	323	0	0	0	0						0.00
SWM	91	9 Aug 72	290	0	1	0	0	0			1.06		0.37
SWM	92	8 Aug 72	285	0	0	0	0	0					0.00
SWM	94	7 Aug 72	305	0	0	0	0	0					0.00
SWM	95	18 Jul 72	324	0	0	0	0	0					0.00
SWM	96	18 Jul 72	302	0	0	0	0	0					0.00
SWM	97	24 Aug 72	393	4	6	4	1	3			28.67		7.29
SWM	98	15 Sep 72	416	8	6	0	3	1			19.39		4.66
Tom	99	5 Oct 72	254	0	0	0	0						0.00
Tom	113	29 Aug 72	245	0	0	0	0						0.00
Ren	12a	20 Sep 72	356	10	3	1	1				15.33		4.31
NWM	14a	16 Aug 72	561	2	0	0	0	0	0				0.37
NWM	14a	7 Sep 72	356	1	3	1	0				6.15		1.73
NWM	15a	21 Aug 72	787	1	1	1	0	0			3.19		0.41
NWM	15a	7 Sep 72	387	0	0	0	0						0.00
NWM	16a	23 Aug 72	248	1	0	1	2	0					1.79
NWM	16a	18 Sep 72	352	44	16	17	14	9			117.36	19.49	33.32
Dun	2a	1 Sep 72	397	0	0	0	0						0.00
Cains	7a	4 Aug 72	296	0	0	0	0						0.00
Main	8a	21 Jul 72	409	2	3	1	0	0			6.19		1.51
Main	3	28 Aug 73	300	2	0	0							0.83
Main	4	12 Jul 73	125	1	1	0	0				2.04		1.62
Main	5	13 Jul 73	221	0	0	0	0	0					0.00
Main	6	12 Jul 73	235	0	0	0	0						0.00
Main	9	12 Jul 73	290	0	0	0	0						0.00
Main	10	11 Jul 73	362	2	0	1	0	1			5.53		1.53
Main	11	20 Jul 73	398	2	1	2	2	0			10.53		2.64
Main	13	24 Aug 73	361	8	4	2	2				18.08		5.01
Main	17	18 Jul 73	335	6	4	5	3				35.16		10.50
MWN	17	23 Aug 73	314	0	0	0	0	2	0				0.65
MWM	18	11 Sep 73	388	0	0	0	0	0					0.00
MWM	19	17 Sep 73	92	0	0	0	0	0	0				0.00
MWM	20	10 Sep 73	229	0	0	0	0	0					0.00
MWM	22	3 Aug 73	330	0	0	0	0	0	0				0.00
MWM	22	10 Sep 73	290	1	0	1	0	0			2.13		0.73
MWM	23	9 Jul 73	290	1	0	1	2	0					1.53
MWM	24	27 Aug 73	304	4	1	4	3	2	1		25.21		8.30
MWM	26	31 Jul 73	358	0	0	0	0	0	0				0.00
MWM	27	24 Aug 73	293	0	0	1	0	0	0		1.54		0.53
MWM	28	2 Aug 73	854	2	1	0	1				4.92		0.58
MWM	29	22 Aug 73	557	1	0	0	1	1	0		10.32		1.85

Table 22 (continued)

Branch[a]	Site	Date	Area (m^2)[b]	Number of eels per sweep in sweep no.						Zippin pop. est.		Eels/ 100 m^2
				0.5[c]	1	2	3	4	5	6	Pop.	±90% CI	
MWM	30	22 Aug 73	599	0	0	0	0	0	0				0.00
MWM	32	21 Aug 73	404		1	0	0	0	0	0			0.25
MWM	33	17 Aug 73	474		1	1	0	0	0	0	2.00		0.42
MWM	34	15 Aug 73	694		0	0	0	4	2	1			1.03
MWM	35	13 Aug 73	331		0	0	0	0	0	0			0.00
MWM	36	14 Aug 73	423		0	0	0	0	0	0			0.00
MWM	40	22 Aug 73	358		2	1	0	0	1		4.62		1.29
MWM	41	17 Aug 73	348		0	0	0	0	0				0.00
MWM	42	7 Sep 73	378		1	0	0	0	0				0.29
MWM	43	20 Jul 73	334		0	1	0	0			1.23		0.37
MWM	44	23 Jul 73	334		0	1	0	0	0		1.06		0.32
MWM	45	30 Jul 73	232		1	1	1	1	0		5.53		2.38
MWM	46	5 Jul 73	292		0	0	0	0	0				0.00
SWM	47	2 Aug 73	324		0	4	0	0	1		7.83		2.42
SWM	48	10 Aug 73	261		0	0	0	0	0				0.00
SWM	49	23 Jul 73	333		4	0	0	0	1		5.14		1.54
SWM	50	31 Aug 73	393		0	0	0	0	0				0.00
SWM	51	14 Aug 73	283		0	0	0	0					0.00
SWM	52	16 Jul 73	336		0	0	0	0	0				0.00
SWM	53	17 Aug 73	327		0	0	0	0	1				0.34
SWM	58	27 Aug 73	375		0	0	0	0	0				0.00
SWM	59	30 Jul 73	371		0	0	0	0	0				0.00
SWM	60	1 Aug 73	266		0	0	0	0	0				0.00
SWM	61	27 Jul 73	276		0	0	0	0	0				0.00
SWM	62	24 Jul 73	403		1	0	0	0	0				0.28
SWM	63	21 Aug 73	332		2	2	0	1	0		5.31		1.60
SWM	64	12 Sep 73	221		0	0	0	0					0.00
SWM	65	31 Jul 73	440		0	0	0	0	0				0.00
SWM	66	6 Sep 73	312		0	0	0	0	0				0.00
SWM	67	18 Jul 73	334		0	0	0	0	0				0.00
SWM	68	16 Aug 73	441		0	0	0	0	0				0.00
SWM	69	31 Jul 73	323		0	0	0	0	0				0.00
SWM	70	25 Jul 73	382		0	0	0	0	0				0.00
SWM	71	5 Sep 73	334		0	0	0	0	0				0.00
SWM	72	23 Aug 73	198		0	0	0	0	0				0.00
SWM	73	9 Aug 73	99		0	0	0	0					0.00
SWM	74	24 Aug 73	869		0	0	0	0	0				0.00
SWM	75	30 Aug 73	306		1	2	0	0	0		3.04		0.99
SWM	76	20 Aug 73	212		0	0	0	0	0				0.00
SWM	77	12 Sep 73	343		0	0	0	0	0				0.00
SWM	79	3 Jul 73	293		0	0	0	0	0				0.00
SWM	80	27 Jun 73	443		0	0	0	0					0.00
SWM	81	26 Jun 73	307		0	1	0	0			1.23		0.40
SWM	82	25 Jul 73	264		0	0	0	0	0				0.00
SWM	83	6 Aug 73	219		0	0	0	0					0.00
SWM	84	4 Sep 73	223		0	0	0	0					0.00
SWM	85	29 Aug 73	276		0	0	1	0	0				0.40
SWM	86	20 Aug 73	303		0	1	0	1	0				0.74
SWM	87	6 Sep 73	406		0	0	0	0	0				0.00
SWM	88	6 Sep 73	305		0	0	0	0	0				0.00
SWM	89	19 Jul 73	341		0	1	0	0	0		1.06		0.31
SWM	90	10 Jul 73	403		0	0	0	0	0				0.00
SWM	91	8 Aug 73	315		0	0	0	0	0				0.00
SWM	92	1 Aug 73	272		0	0	0	0	0				0.00
SWM	94	31 Jul 73	209		0	0	0	0	0				0.00
SWM	95	24 Jul 73	293		0	0	0	0	0				0.00
SWM	96	24 Jul 73	290		0	0	0	0	0				0.00
SWM	97	15 Aug 73	374		4	4	6	1			28.32		7.56
SWM	98	26 Jul 73	388		10	3	3	1	0		17.29		4.46
Tom	99	31 Aug 73	206		0	0	0	0	0	0			0.00
Tom	113	28 Aug 73	145		0	0	0	0	0	0			0.00
Ren	12a	14 Sep 73	365		12	5	4	1	1		23.85		6.53
NWM	14a	16 Aug 73	561		1	0	1	0	0	0	2.05		0.36
NWM	14a	30 Aug 73	296		6	2	0	1	1		10.42		3.52
NWM	15a	1 Aug 73	696		0	1	0	0	0	0	1.02		0.15
NWM	15a	30 Aug 73	315		0	0	0	0					0.00
NWM	16a	18 Jul 73	280		35	18	9	16	8		105.02	23.15	37.55
NWM	16a	20 Aug 73	248		0	1	0	0	1				0.90
Dun	2a	27 Aug 73	347		1	0	0	0					0.34
Cains	7a	31 Aug 73	326		0	0	0	0	0				0.00
Main	8a	13 Jul 73	366		0	0	0	0	0				0.00
Main	1	23 Aug 74	357		1	1	0	1	1				1.25
Main	4	18 Jul 74	123		0	0	1	0					0.95
Main	5	18 Jul 74	208		0	0	0	0					0.00
Main	9	22 Jul 74	305		0	1	0	0	0		1.06		0.35
Main	10	8 Jul 74	410		1	0	0	0	1				0.54
Main	11	7 Aug 74	367		0	0	0	0	1				0.30
Main	13	15 Jul 74	341		1	2	0	1	3				2.29
Main	17	3 Jul 74	401		4	4	6	3			189.07		47.18
MWM	18	10 Jul 74	382		3	0	1	0	0		4.02		1.05
MWM	19	7 Aug 74	139		0	0	0	0	0				0.00

Branch[a]	Site	Date	Area (m^2)[b]	Number of eels per sweep in sweep no.							Zippin pop. est.		Eels/ 100 m^2
				0.5[c]	1	2	3	4	5	6	Pop.	±90% CI	
MWM	21	12 Aug 74	327		0	1	0	0	0		1.06		0.32
MWM	22	22 Aug 74	316		0	0	0	0	0				0.00
MWM	23	20 Aug 74	287		1	0	0	0	0				0.39
MWM	25	9 Aug 74	305		0	0	0	0	0				0.00
MWM	26	12 Aug 74	344		1	2	2	2	0		13.63		3.96
MWM	27	13 Aug 74	258		0	1	0	0	0		1.06		0.41
MWM	28	8 Aug 74	608		0	2	1	0			7.23		1.19
MWM	29	28 Aug 74	412		1	4	0	0	0		5.14		1.25
MWM	30	28 Aug 74	475		1	0	0	0					0.25
MWM	31	29 Aug 74	324		0	0	0	0					0.00
MWM	32	22 Aug 74	508		0	0	0	0	1				0.22
MWM	33	22 Aug 74	409		2	1	1	0			4.29		1.05
MWM	34	19 Aug 74	742		3	3	2	0			9.04		1.22
MWM	35	19 Aug 74	292		0	1	0	0	0		1.06		0.36
MWM	36	19 Aug 74	372		0	0	0	0	0				0.00
MWM	37	16 Sep 74	356		0	0	0	0	0				0.00
MWM	38	6 Sep 74	367		0	0	0	0	0				0.00
MWM	39	17 Sep 74	367		0	0	0	0	0				0.00
MWM	40	16 Jul 74	415		0	0	0	0	1				0.27
MWM	41	29 Jul 74	386		0	1	0	0			1.23		0.32
MWM	42	26 Aug 74	385		1	3	0	0	0		4.09		1.06
MWM	43	16 Jul 74	345		0	0	0	0	0				0.00
MWM	44	26 Aug 74	348		1	0	0	0	0				0.32
MWM	45	27 Aug 74	236		5	1	0	1	0		7.06		2.99
MWM	46	17 Jul 74	281		0	0	0	0	0				0.00
SWM	47	19 Jul 74	327		5	2	2	0	1		10.63		3.25
SWM	48	16 Aug 74	343		0	0	0	0	0				0.00
SWM	49	28 Jun 74	352		0	0	0	0	0				0.00
SWM	50	26 Jul 74	365		2	1	0	0	0		3.00		0.82
SWM	52	10 Jul 74	263		0	0	0	0	0				0.00
SWM	53	29 Jul 74	306		0	1	0	0	0		1.06		0.35
SWM	55	6 Sep 74	263		0	0	0	0	0				0.00
SWM	56	9 Sep 74	285		0	0	0	0	0				0.00
SWM	57	10 Sep 74	352		0	0	0	0	0				0.00
SWM	58	15 Aug 74	376		0	0	0	0	0				0.00
SWM	59	5 Sep 74	323		1	0	0	0	1				0.69
SWM	60	3 Jul 74	294		0	0	0	0	0				0.00
SWM	61	3 Jul 74	295		2	1	0	0	0		3.00		1.02
SWM	62	4 Jul 74	392		0	1	0	0			1.23		0.31
SWM	63	9 Aug 74	343		0	1	0	0	0		1.06		0.31
SWM	64	1 Aug 74	217		0	0	0	0	0				0.00
SWM	65	30 Jul 74	426		2	1	1	0	0		4.09		0.96
SWM	66	27 Aug 74	292		0	0	0	0	0				0.00
SWM	67	2 Jul 74	325		0	1	0	0			1.23		0.38
SWM	68	23 Jul 74	381		0	0	0	0	0				0.00
SWM	69	30 Jul 74	275		0	0	0	0	0				0.00
SWM	70	8 Aug 74	420		0	0	0	0	0				0.00
SWM	71	30 Aug 74	346		0	1	0	0	0		1.06		0.31
SWM	72	9 Jul 74	220		0	0	0	0	0				0.00
SWM	73	2 Jul 74	127		0	0	0	0					0.00
SWM	74	29 Aug 74	600		0	0	0	0	0				0.00
SWM	75	20 Aug 74	295		3	3	0	3	0		10.88		3.69
SWM	76	21 Aug 74	198		0	1	0	0	0		1.06		0.54
SWM	77	9 Sep 74	359		1	0	0	0	0				0.31
SWM	79	18 Jul 74	287		0	0	0	0	0				0.00
SWM	80	8 Jul 74	405		0	0	0	0	0				0.00
SWM	81	26 Jun 74	295		0	1	0	0			1.23		0.42
SWM	82	25 Jun 74	286		0	0	0	0	0				0.00
SWM	83	23 Jul 74	237		0	0	0	0	0				0.00
SWM	84	16 Aug 74	274		2	0	2	0			4.92		1.79
SWM	85	25 Jul 74	304		0	0	0	0	0				0.00
SWM	86	31 Jul 74	438		2	0	0	0	0				0.51
SWM	87	24 Jul 74	361		0	0	0	0	0				0.00
SWM	88	24 Jul 74	316		1	0	0	0	0				0.35
SWM	89	22 Jul 74	366		0	0	0	0	0				0.00
SWM	90	9 Jul 74	339		0	0	0	0					0.00
SWM	91	14 Aug 74	241		0	0	0	0	0				0.00
SWM	92	14 Aug 74	213		0	0	0	0	0				0.00
SWM	94	10 Aug 74	170		0	0	0	0	0				0.00
SWM	95	30 Jul 74	238		0	0	0	0	0				0.00
SWM	96	30 Jul 74	254		0	0	0	0	0				0.00
SWM	97	20 Aug 74	369		2	4	2	0	1		10.88		2.95
SWM	98	12 Jul 74	329		5	2	2	0	0		9.13		2.77
Ren	12a	1 Aug 74	356		4	2	2	2	0		11.31		3.17
NWM	14a	26 Jul 74	355		6	1	0	0	1		8.09		2.28
NWM	15a	24 Jun 74	338		0	0	0	0					0.00
NWM	16a	5 Jul 74	270		29	19	11	16			117.21	65.45	43.36
NWM	16a	9 Aug 74	306		0	0	0	0	0				0.00
Dun	2a	6 Aug 74	323		0	0	0	0	0				0.00
Cains	7a	16 Aug 74	316		1	0	0	0	0				0.35
Main	8a	12 Jul 74	361		1	1	3	0	2				2.16

Table 22 (continued)

Branch[a]	Site	Date	Area (m^2)[b]	Number of eels per sweep in sweep no.						Zippin pop. est.		Eels/ 100 m^{2d}
				0.5[c]	1	2	3	4	5	6	Pop.	±90% CI	
Main	1	27 Jun 75	378	3	1	1	1	1			9.06		2.39
Main	4	11 Sep 75	123	0	0	0	0						0.00
Main	5	11 Sep 75	142	0	0	0	0						0.00
Main	9	18 Jul 75	272	1	1	0	0	0			2.01		0.74
Main	10	7 Jul 75	390	3	4	1	0	0			8.17		2.10
Main	11	5 Sep 75	374	0	0	0	0	0					0.00
Main	13	10 Jul 75	306	6	3	2	1	1			14.09		4.60
Main	17	9 Sep 75	292	5	3	0	1				9.43		3.23
MWM	18	24 Jun 75	404	2	2	1	2	1			17.13		4.24
MWM	19	23 Jun 75	193	1	0	1	4	0					3.46
MWM	21	26 Jun 75	325	2	3	0	0	0			5.05		1.55
MWM	22	25 Jun 75	322	1	0	0	0	0					0.35
MWM	23	3 Jul 75	256	2	0	1	0	0			3.04		1.19
MWM	24	16 Sep 75	284	2	0	0	0	0					0.78
MWM	26	2 Jul 75	373	0	0	0	0						0.00
MWM	27	4 Jul 75	261	0	0	2	0	0					0.85
MWM	28	13 Aug 75	828	0	0	0	0	0					0.00
MWM	29	14 Aug 75	386	0	1	0	0	0			1.06		0.28
MWM	30	14 Aug 75	400	0	0	0	0	0					0.00
MWM	31	13 Aug 75	292	2	3	2	0	0			7.44		2.55
MWM	33	28 Aug 75	456	2	3	0	0	1			6.70		1.47
MWM	34	8 Sep 75	733	0	0	2	1	0					0.46
MWM	35	10 Sep 75	425	0	0	0	0	0					0.00
MWM	36	26 Aug 75	390	0	0	0	0	0					0.00
MWM	37	25 Aug 75	364	0	0	0	1	0					0.31
MWM	38	30 Jul 75	410	0	0	0	0						0.00
MWM	39	15 Aug 75	364	0	0	0	0	0					0.00
MWM	40	18 Jul 75	297	0	0	0	0	0					0.00
MWM	41	14 Jul 75	347	1	0	0	1	0			2.76		0.80
MWM	42	25 Aug 75	339	0	1	0	0	0			1.06		0.31
MWM	43	16 Jul 75	331	0	0	0	0	0					0.00
MWM	44	20 Aug 75	335	0	0	0	0	0					0.00
MWM	45	12 Aug 75	238	2	0	0	0	0					0.94
MWM	46	15 Jul 75	295	0	0	0	0	0					0.00
SWM	47	17 Jul 75	329	1	5	1	1	2			25.33		7.69
SWM	48	8 Aug 75	289	0	0	0	0	0					0.00
SWM	49	8 Jul 75	361	2	0	0	0	0					0.62
SWM	50	22 Jul 75	335	0	0	0	0	0					0.00
SWM	52	11 Jul 75	255	1	0	1	1	0			5.27		2.06
SWM	53	7 Aug 75	295	0	0	0	0	0					0.00
SWM	55	20 Aug 75	258	1	0	0	0	0					0.43
SWM	56	29 Aug 75	260	0	0	0	0	0					0.00
SWM	57	22 Aug 75	331	0	0	0	0	0					0.00
SWM	58	1 Aug 75	377	11	1	0	0	0			12.00		3.18
SWM	59	4 Sep 75	295	0	0	0	0	0					0.00
SWM	60	9 Jul 75	305	1	0	0	0	0					0.36
SWM	61	15 Jul 75	252	0	1	1	0	0			2.76		1.10
SWM	62	10 Jul 75	380	6	0	1	0	0			7.00		1.84
SWM	63	11 Aug 75	400	0	0	2	0	0					0.56
SWM	64	25 Jul 75	237	0	1	0	0	0			1.06		0.45
SWM	65	31 Jul 75	356	2	4	0	0	0			6.08		1.71
SWM	66	21 Aug 75	286	0	0	0	0	0					0.00
SWM	67	6 Aug 75	361	0	0	0	0	0					0.00
SWM	68	18 Aug 75	371	1	1	0	0	0			2.01		0.54
SWM	69	31 Jul 75	257	0	0	0	0						0.00
SWM	70	5 Aug 75	334	1	0	0	1	0			2.76		0.83
SWM	71	25 Jul 75	308	0	0	0	0	0					0.00
SWM	72	12 Sep 75	216	0	0	0	0	0					0.00
SWM	73	12 Sep 75	97	0	0	0	0						0.00
SWM	74	24 Jul 75	538	0	0	0	0	0					0.00
SWM	75	18 Aug 75	302	1	0	0	0	0					0.37
SWM	76	15 Aug 75	219	0	0	0	0	0					0.00
SWM	77	6 Aug 75	362	1	1	0	0	1			5.27		1.46
SWM	79	17 Jul 75	290	0	0	0	0	0					0.00
SWM	80	7 Jul 75	390	0	0	0	0	0					0.00
SWM	81	8 Jul 75	349	1	0	0	0						0.33
SWM	82	30 Jun 75	294	0	0	0	0	0					0.00
SWM	83	3 Jul 75	253	0	0	0	0	0					0.00
SWM	84	5 Aug 75	281	0	1	1	1	1					1.58
SWM	85	23 Jul 75	306	0	0	0	0	0					0.00
SWM	86	31 Jul 75	465	0	0	0	1	0					0.24
SWM	87	19 Aug 75	390	1	0	0	0	0					0.29
SWM	88	21 Jul 75	321	1	0	1	0	0			2.13		0.66
SWM	89	16 Jul 75	366	1	1	0	0	0			2.01		0.55
SWM	90	9 Jul 75	291	0	0	0	0	0					0.00
SWM	91	2 Sep 75	254	0	2	1	0	1					1.75
SWM	92	23 Jul 75	291	0	0	0	0	0					0.00
SWM	94	21 Aug 75	162	0	0	0	0	0					0.00
SWM	95	30 Jul 75	228	0	0	1	0	0					0.49
SWM	96	30 Jul 75	269	0	0	0	0	0					0.00
SWM	97	29 Aug 75	364	5	3	3	2				19.18		5.28
SWM	98	11 Jul 75	373	7	2	4	5	0			22.59		6.06
Ren	12a	21 Jul 75	294	9	5	4	4				24.29		8.26
NWM	14a	27 Aug 75	337	10	2	0	1	2			15.55		4.61
NWM	15a	27 Aug 75	329	0	3	0	0				3.69		1.12
NWM	16a	15 Sep 75	270	6	6	10	3	3			50.33	90.95	18.62
Dun	2a	22 Jul 75	312	0	1	0	0				1.23		0.39
Cains	7a	12 Aug 75	332	1	1	0	0	0			2.01		0.61
Main	8a	4 Jul 75	354	2	3	3	0	0			8.80		2.48
Main	1	25 Jun 76	297	2	3	2	0	0			7.44		2.51
Main	3	16 Jul 76	335	5	2	0	0	0			7.00		2.09
Main	4	6 Aug 76	130	0	1	0	0				1.23		0.95
Main	5	20 Jul 76	156	0	0	0	0						0.00
Main	9	23 Jul 76	278	0	0	0	0	0					0.00
Main	10	8 Jul 76	344	1	1	0	0	0			2.01		0.58
Main	11	7 Aug 76	332	0	0	0	0	0					0.00
Main	13	30 Jun 76	310	8	2	1	1	1			13.43		4.33
MWM	18	22 Jun 76	379	1	1	1	0	0			3.19		0.84
MWM	19	23 Jun 76	169	3	0	1	0	0			4.02		2.38
MWM	21	24 Jun 76	312	0	0	0	1	1					0.71
MWM	22	25 Jun 76	282	0	0	0	1	0					0.39
MWM	23	9 Jul 76	265	1	3	0	2	0			8.29		3.13
MWM	24	26 Aug 76	272	5	4	2	1				13.89		5.11
MWM	26	30 Jun 76	390	0	1	0	1	0					0.57
MWM	27	9 Jul 76	259	0	0	0	0	0					0.00
MWM	28	23 Aug 76	850	1	0	0	0	0					0.13
MWM	29	5 Aug 76	383	0	3	0	0	1			8.56		2.24
MWM	30	5 Aug 76	409	0	0	0	0	0					0.00
MWM	31	4 Aug 76	296	2	1	2	0	0			5.31		1.80
MWM	33	9 Sep 76	443	0	0	0	2	0					0.50
MWM	35	28 Jul 76	429	0	0	0	0	0					0.00
MWM	36	28 Jul 76	385	0	1	3	0	0			8.56		2.23
MWM	37	27 Aug 76	332	0	0	0	0	0					0.00
MWM	38	19 Jul 76	369	2	0	0	0	0					0.60
MWM	39	7 Sep 76	369	0	1	0	0	0			1.06		0.29
MWM	40	4 Aug 76	303	0	0	0	0	0					0.00
MWM	41	6 Jul 76	354	1	0	1	0	0			2.13		0.60
MWM	42	9 Sep 76	337	0	0	0	0	0					0.00
MWM	43	7 Sep 76	272	0	0	0	0	0					0.00
MWM	44	23 Aug 76	361	1	0	2	0	1					1.23
MWM	45	22 Jul 76	234	6	3	1	0	0			10.05		4.30
MWM	46	21 Jul 76	311	1	0	0	0	0					0.36
SWM	47	9 Aug 76	303	3	3	3	2	0			13.56		4.47
SWM	48	21 Jul 76	353	0	0	1	0	0					0.32
SWM	49	6 Jul 76	381	1	1	2	1	1					1.75
SWM	52	12 Jul 76	251	2	1	0	0	0			3.00		1.20
SWM	53	8 Sep 76	244	0	0	0	0	0					0.00
SWM	56	25 Aug 76	305	0	0	0	0	0					0.00
SWM	57	25 Aug 76	371	0	0	0	0	0					0.00
SWM	58	26 Jul 76	428	0	0	0	0	0					0.00
SWM	60	5 Jul 76	357	0	0	0	0	0					0.00
SWM	61	31 Aug 76	299	0	0	0	0	0					0.00
SWM	62	7 Jul 76	401	4	0	2	0	0			6.08		1.52
SWM	64	3 Aug 76	215	0	0	0	0	0					0.00
SWM	65	29 Jul 76	384	1	0	0	1	1					0.87
SWM	67	6 Aug 76	360	1	0	0	0	0					0.31
SWM	69	29 Jul 76	281	1	0	0	0						0.41
SWM	70	27 Jul 76	320	0	0	0	0	0					0.00
SWM	71	3 Aug 76	316	0	0	0	0	0					0.00
SWM	72	19 Aug 76	239	0	0	0	0	0					0.00
SWM	73	10 Sep 76	100	0	0	0	0						0.00
SWM	74	10 Sep 76	434	2	0	0	0	0					0.31
SWM	75	24 Aug 76	310	0	0	0	0	0					0.00
SWM	76	24 Aug 76	200	0	2	0	0	1					1.67
SWM	77	13 Sep 76	314	0	0	0	0	0					0.00
SWM	79	8 Jul 76	298	0	0	0	0	0					0.00
SWM	80	29 Jun 76	416	0	0	0	0	0					0.00
SWM	81	25 Jun 76	363	0	1	0	0				1.23		0.34
SWM	82	29 Jun 76	298	2	1	0	0	0			3.00		1.01
SWM	83	24 Jun 76	259	0	0	0	0	0					0.00
SWM	84	8 Sep 76	297	2	0	0	0	0					0.75
SWM	86	1 Sep 76	439	1	0	0	0	0					0.25
SWM	87	1 Sep 76	438	0	0	0	0	0					0.00
SWM	88	4 Sep 76	344	1	0	0	0	0					0.32
SWM	89	22 Jul 76	358	0	0	0	0	0					0.00
SWM	90	28 Jun 76	305	0	0	0	0	0					0.00
SWM	92	20 Jul 76	298	0	0	0	0	0					0.00
SWM	94	26 Jun 76	169	0	0	0	0	0					0.00
SWM	95	29 Jul 76	230	0	0	0	0	0					0.00
SWM	96	29 Jul 76	265	0	0	0	0	0					0.00
SWM	97	20 Aug 76	376	3	4	0	1				9.04		2.40
SWM	98	5 Jul 76	374	5	4	0	2	0			11.48		3.07

Table 22 (continued)

Branch[a]	Site	Date	Area (m^2)[b]	Number of eels per sweep in sweep no.						Zippin pop. est.		Eels/ 100 m^{2c}
				0.5[c]	1	2	3	4	5	6	Pop.	±90% CI	
Ren	12a	19 Jul 76	377		3	1	0	1	0		5.14		1.36
NWM	14a	27 Jul 76	386		2	1	4	1	1		21.03		5.44
NWM	15a	30 Aug 76	337		1	1	0	0			2.04		0.60
NWM	16a	23 Jul 76	275		10	16	4	4	4		47.00		17.12
Dun	2a	30 Aug 76	309		0	0	0	0	0				0.00
Cains	7a	12 Jul 76	355		1	0	0	0	1				0.63
Main	8a	9 Aug 76	339		1	0	0	0	0				0.33
Main	1	5 Jul 77	357		3	1	2	2	1		15.80		4.43
Main	4	22 Jul 77	128		1	0	0	0	0				0.87
Main	5	22 Jul 77	157		0	0	0	0					0.00
Main	9	7 Jul 77	289		0	1	0	0	0		1.06		0.37
Main	10	6 Jul 77	377		1	0	0	0	0				0.30
Main	11	7 Jul 77	490		0	0	0	0	0				0.00
Main	13	8 Aug 77	372		4	3	1	1	1		11.31		3.04
Main	17	2 Aug 77	319		3	3	5	2			112.13		35.14
MWM	18	15 Jul 77	358		3	0	1	1	0		5.31		1.49
MWM	19	8 Jul 77	164		2	0	0	0	1		3.63		2.21
MWM	21	13 Jul 77	314		2	1	0	0	0		3.00		0.96
MWM	22	12 Jul 77	291		2	0	0	0	0				0.77
MWM	23	25 Jul 77	280		0	1	1	0	1				1.19
MWM	24	19 Aug 77	277		2	0	1	0	0		3.04		1.10
MWM	26	18 Jul 77	368		1	0	1	0			2.46		0.67
MWM	27	23 Aug 77	285		0	0	0	0	0				0.00
MWM	28	31 Aug 77	781		2	1	0	0	0		3.00		0.38
MWM	29	21 Jul 77	383		2	2	0	0	1		5.65		1.48
MWM	30	21 Jul 77	417		2	0	0	0	0				0.53
MWM	31	8 Aug 77	314		0	2	0	1	0		5.27		1.68
MWM	33	23 Aug 77	434		2	1	1	0	0		4.09		0.94
MWM	34	1 Sep 77	721		2	2	0	0	0		4.02		0.56
MWM	35	26 Jul 77	462		0	0	0	0	0				0.00
MWM	36	19 Jul 77	381		1	0	0	0	0				0.29
MWM	37	22 Aug 77	326		1	0	0	0	0				0.34
MWM	38	26 Jul 77	298		0	0	0	0	0				0.00
MWM	39	3 Aug 77	338		1	1	2	0	0		4.62		1.37
MWM	40	5 Aug 77	340		0	0	0	0	0				0.00
MWM	41	25 Jul 77	363		1	0	0	0	0				0.31
MWM	42	18 Aug 77	235		1	0	0	0	0				0.47
MWM	43	25 Aug 77	322		0	0	0	0	0				0.00
MWM	44	3 Aug 77	392		1	1	1	0	0		3.19		0.81
MWM	45	19 Aug 77	250		0	1	0	0	0		1.06		0.43
MWM	46	12 Jul 77	311		1	1	0	0	0		2.01		0.65
SWM	47	29 Jul 77	292		4	5	8	1	1		25.58		8.75
SWM	48	29 Aug 77	329		0	1	0	0	0		1.06		0.32
SWM	49	16 Aug 77	417		1	0	0	0	0				0.27
SWM	52	24 Aug 77	268		0	0	0	0	0				0.00
SWM	53	5 Aug 77	271		1	0	0	0	0				0.41
SWM	55	25 Aug 77	240		0	0	0	0	0				0.00
SWM	56	18 Aug 77	310		0	0	0	0	0				0.00
SWM	57	17 Aug 77	400		0	0	0	0	0				0.00
SWM	58	10 Aug 77	389		0	0	0	0	0				0.00
SWM	59	29 Aug 77	286		2	0	0	0	0				0.78
SWM	60	27 Jul 77	372		0	0	0	0	0				0.00
SWM	61	7 Sep 77	293		0	0	0	0	0				0.00
SWM	62	20 Jul 77	374		3	0	0	0	0				0.89
SWM	63	30 Aug 77	485		0	0	0	0	0				0.00
SWM	64	8 Sep 77	200		0	0	0	0	0				0.00
SWM	65	28 Jul 77	328		0	0	0	0	0				0.00
SWM	66	30 Aug 77	286		0	0	0	0	0				0.00
SWM	67	6 Sep 77	411		0	0	0	0	0				0.00
SWM	69	28 Jul 77	288		0	0	0	0					0.00
SWM	70	9 Aug 77	322		0	0	0	0	0				0.00
SWM	71	11 Aug 77	272		0	0	0	0	0				0.00
SWM	72	22 Aug 77	254		0	0	0	0	0				0.00
SWM	74	26 Aug 77	457		0	0	0	0	0				0.00
SWM	75	12 Aug 77	314		0	0	0	0	0				0.00
SWM	76	11 Aug 77	236		7	2	1	0	0		10.02		4.24
SWM	77	4 Aug 77	348		0	1	0	0	0		1.06		0.30
SWM	79	20 Jul 77	314		0	0	0	0	0				0.00
SWM	80	11 Jul 77	388		0	0	0	0					0.00
SWM	81	11 Jul 77	395		1	0	0	0	0				0.28
SWM	82	14 Jul 77	301		0	0	0	0	0				0.00
SWM	83	14 Jul 77	227		0	0	0	0	0				0.00
SWM	84	27 Jul 77	285		1	0	3	0	0		5.53		1.94
SWM	85	13 Sep 77	293		0	0	0	0	0				0.00
SWM	86	9 Aug 77	427			2	0	0	1		5.53		1.30
SWM	87	16 Aug 77	434		2	1	0	0	0		3.00		0.69
SWM	88	4 Aug 77	328		0	0	0	0	0				0.00
SWM	89	19 Jul 77	352		0	0	0	0	0				0.00
SWM	90	18 Jul 77	186		0	0	0	0	0				0.00
SWM	91	10 Aug 77	260		1	0	1	0	0		2.13		0.82
SWM	92	10 Aug 77	270		0	0	0	0	0				0.00
SWM	94	10 Aug 77	168		0	0	0	0	0				0.00
SWM	95	28 Jul 77	255		1	1	0	0	0		2.01		0.79
SWM	96	28 Jul 77	261		0	0	0	0	0				0.00
SWM	97	24 Aug 77	340		8	4	2	3			20.90		6.16
SWM	98	15 Jul 77	376		10	6	6	1	1		25.76		6.86
Ren	12a	15 Aug 77	368		3	0	1	0	0		4.02		1.09
NWM	14a	26 Aug 77	380		0	2	0	1	0		5.27		1.39
NWM	15a	9 Sep 77	305		0	0	0	0	0				0.00
NWM	16a	2 Sep 77	293		11	1	0	2	1		15.30		5.22
Dun	2a	8 Jul 77	432		1	0	0	0	0				0.26
Cains	7a	6 Jul 77	338		0	0	0	0	0				0.00
Main	8a	5 Jul 77	392		2	1	1	0	0		4.09		1.04
Main	1	27 Jun 78	357		0	0	0	0	1				0.31
Main	4	28 Jul 78	131		1	0	0	0					0.89
Main	5	28 Jul 78	147		0	0	0	0	0				0.00
Main	9	29 Jun 78	295		0	0	0	0	0				0.00
Main	10	29 Jun 78	382		0	0	0	0	0				0.00
Main	11	14 Jul 78	512		0	0	0	0	0				0.00
Main	13	9 Aug 78	364		7	3	2	1	1		14.88		4.09
Main	17	24 Jul 78	334		2	2	3	0			10.15		3.03
MWM	18	25 Aug 78	318		0	0	0	1	0				0.35
MWM	19	5 Sep 78	159		0	0	0	0	0				0.00
MWM	21	18 Aug 78	288		0	0	0	0	0				0.00
MWM	22	7 Sep 78	292		0	0	0	0	0				0.00
MWM	23	31 Aug 78	261		3	0	0	0	0				1.28
MWM	24	11 Aug 78	271		0	0	0	0	0				0.00
MWM	26	28 Jun 78	310		0	0	0	0					0.00
MWM	27	7 Jul 78	328		0	0	0	0	0				0.00
MWM	28	20 Jul 78	823		2	1	0	0	0		3.00		0.36
MWM	29	12 Jul 78	398		1	0	1	0	0		2.13		0.53
MWM	30	12 Jul 78	434		1	0	0	1	0		2.76		0.64
MWM	31	31 Jul 78	314		0	0	0	0	0				0.00
MWM	33	16 Aug 78	436		1	1	1	1	1				1.27
MWM	34	31 Jul 78	718		0	2	5	2	1				1.55
MWM	35	27 Jul 78	467		1	0	0	0	0				0.24
MWM	36	27 Jul 78	385		0	0	0	0	0				0.00
MWM	37	26 Jul 78	310		1	0	0	0	0				0.36
MWM	38	2 Aug 78	339		0	1	0	0	0		1.06		0.31
MWM	39	26 Jul 78	350		1	1	0	1			7.23		2.06
MWM	40	6 Jul 78	360		0	1	0	0	0		1.06		0.29
MWM	41	6 Jul 78	364		0	0	0	0	0				0.00
MWM	42	7 Jul 78	237		1	2	0	0	0		3.04		1.29
MWM	43	21 Jul 78	323		0	0	0	0					0.00
MWM	44	1 Aug 78	390		0	1	0	0	0		1.06		0.27
MWM	45	23 Aug 78	240		0	2	1	0	0		3.63		1.51
MWM	46	10 Jul 78	310		1	0	0	0	0				0.36
SWM	47	11 Jul 78	329		7	2	1	1	0		11.13		3.38
SWM	48	10 Jul 78	328		1	0	0	0					0.36
SWM	49	25 Jul 78	419		0	0	0	0	0				0.00
SWM	52	11 Jul 78	279		0	0	0	0					0.00
SWM	53	19 Jul 78	274		0	0	0	0	0				0.00
SWM	55	1 Aug 78	246		0	0	0	0	0				0.00
SWM	56	13 Jul 78	319		1	1	0	0	0		2.01		0.63
SWM	57	13 Jul 78	385		0	0	0	0	0				0.00
SWM	58	21 Aug 78	396		0	0	0	0	0				0.00
SWM	59	17 Aug 78	288		1	0	1	0	0		2.13		0.74
SWM	60	10 Aug 78	373		0	0	0	0	0				0.00
SWM	61	18 Jul 78	410		0	0	0	0	0				0.00
SWM	62	21 Aug 78	485		1	0	0	1	0		2.76		0.57
SWM	63	22 Aug 78	460		0	0	0	0	0				0.00
SWM	64	14 Jul 78	209		0	0	0	0	0				0.00
SWM	65	3 Aug 78	340		0	0	0	0	0				0.00
SWM	66	23 Aug 78	289		0	0	0	0	0				0.00
SWM	67	18 Jul 78	415		0	0	0	0	0				0.00
SWM	69	3 Aug 78	276		1	0	0	0					0.42
SWM	70	17 Aug 78	326		0	0	0	0	0				0.00
SWM	71	28 Aug 78	269		0	0	0	0	0				0.00
SWM	72	25 Jul 78	282		0	1	1	0	0		2.76		0.98
SWM	73	1 Sep 78	218		0	0	0	0	0				0.00
SWM	74	24 Aug 78	342		0	1	0	0	0		1.06		0.31
SWM	75	9 Aug 78	318		3	0	0	0	0				1.05
SWM	76	8 Aug 78	242		0	1	0	0	0		1.06		0.44
SWM	77	8 Aug 78	358		2	0	0	0	0				0.62
SWM	79	17 Jul 78	316		0	0	0	0	0				0.00
SWM	80	4 Jul 78	366		0	0	0	0					0.00
SWM	81	4 Jul 78	395		0	0	0	0	0				0.00
SWM	82	5 Jul 78	332		0	0	0	2	0				0.67
SWM	83	5 Jul 78	236		0	0	0	0	0				0.00
SWM	84	17 Jul 78	303		3	1	1	1	0		6.38		2.10
SWM	85	16 Aug 78	297		0	0	0	0	0				0.00
SWM	86	22 Aug 78	424		1	0	2	1	0		8.56		2.02

Table 22 (continued)

Branch[a]	Site	Date	Area (m^2)[b]	Number of eels per sweep in sweep no.						Zippin pop. est.		Eels/ 100 m^2[a]
				0.5[c]	1	2	3	4	5	6	Pop.	±90% CI	
SWM	87	15 Aug 78	429		2	0	1	0	0		3.04		0.71
SWM	88	15 Aug 78	294		0	0	0	0	0				0.00
SWM	89	6 Sep 78	333		0	0	0	0	0				0.00
SWM	90	6 Sep 78	169		0	0	0	0	0				0.00
SWM	91	10 Aug 78	262		0	0	1	0	0				0.43
SWM	92	10 Aug 78	274		0	0	0	0	0				0.00
SWM	94	10 Aug 78	169		0	0	0	0	0				0.00
SWM	95	3 Aug 78	260		0	0	0	0	0				0.00
SWM	96	3 Aug 78	258		0	0	0	0	0				0.00
SWM	97	30 Aug 78	336		2	6	2	0	1		12.86		3.82
SWM	98	25 Aug 78	364		4	2	2	1	1		11.86		3.26
Ren	12a	24 Aug 78	328		4	1	1	0	0		6.03		1.84
NWM	14a	2 Aug 78	381		2	1	1	1	0		5.65		1.48
NWM	15a	24 Jul 78	312		0	0	0	0	0				0.00
NWM	16a	21 Jul 78	275		9	5	4	2			23.66		8.67
Dun	2a	27 Jun 78	462		1	1	1	0	0		3.19		0.69
Cains	7a	28 Jun 78	349		0	0	0	0	0				0.00
Main	8a	26 Jun 78	376		0	1	0	0	0		1.06		0.28
Main	9	8 Aug 79	292		0	0	0	0	0				0.00
Main	10	21 Sep 79	417		0	0	0	0	1				0.27
Main	11	28 Sep 79	388		0	0	0	0	0				0.00
MWM	26	3 Jul 79	324		0	1	0	0			1.23		0.38
MWM	28	22 Jul 79	950		2	0	0	0	0				0.23
MWM	31	25 Jul 79	330		0	0	0	0	0				0.00
MWM	33	24 Jul 79	436		3	1	0	0	0		4.00		0.92
MWM	34	4 Jul 79	769		0	0	0	0	0				0.00
MWM	36	12 Jul 79	366		0	0	0	0	0				0.00
MWM	37	26 Sep 79	299		0	0	0	0	0				0.00
MWM	38	27 Jul 79	361		1	0	0	0	0				0.31
MWM	39	27 Sep 79	348		1	0	0	0	0				0.32
MWM	40	9 Jul 79	365		0	0	0	0	0				0.00
MWM	43	20 Jul 79	306		0	0	0	0	0				0.00
MWM	44	1 Oct 79	248		0	0	0	0	0				0.00
MWM	45	17 Sep 79	292		0	1	1	0	0		2.76		0.95
MWM	46	10 Jul 79	363		1	1	0	0	0		2.01		0.55
SWM	48	6 Jul 79	313		0	0	0	0	0				0.00
SWM	49	30 Jul 79	321		0	1	0	0	0		1.06		0.33
SWM	53	31 Jul 79	286		0	0	0	0	0				0.00
SWM	55	13 Jul 79	272		0	0	0	0					0.00
SWM	56	19 Jul 79	322		0	0	0	0	0				0.00
SWM	57	18 Jul 79	333		0	0	0	0	0				0.00
SWM	59	18 Sep 79	235		1	0	0	0	0				0.47
SWM	60	3 Aug 79	370		0	0	0	0	0				0.00
SWM	62	24 Sep 79	237		0	0	0	0	0				0.00
SWM	64	16 Jul 79	262		0	0	0	0	0				0.00
SWM	65	25 Sep 79	413		0	0	0	0	0				0.00
SWM	66	19 Sep 79	278		0	0	0	0	0				0.00
SWM	70	29 Aug 79	419		0	0	0	0	0				0.00
SWM	71	31 Aug 79	338		0	0	0	0	0				0.00
SWM	74	3 Sep 79	352		0	0	1	0	0				0.32
SWM	75	21 Aug 79	270		0	0	0	0	0				0.00
SWM	76	20 Aug 79	241		0	0	0	0	0				0.00
SWM	77	4 Sep 79	382		0	0	0	0	0				0.00
SWM	79	26 Jul 79	259		0	0	0	0	0				0.00
SWM	81	27 Jun 79	400		0	0	0	0	0				0.00
SWM	82	28 Jun 79	356		0	0	0	0	0				0.00
SWM	83	5 Jul 79	197		0	0	0	0	0				0.00
SWM	84	6 Sep 79	403		3	2	0	1	0		6.19		1.54
SWM	85	28 Aug 79	372		0	0	0	0	0				0.00
SWM	87	5 Sep 79	469		0	1	0	0	0		1.06		0.23
SWM	88	20 Sep 79	297		0	0	0	0	0				0.00
SWM	91	2 Aug 79	256		0	0	0	1	0				0.43
SWM	92	2 Aug 79	278		0	0	0	0	0				0.00
SWM	94	2 Aug 79	168		0	0	0	0	0				0.00
Cains	7a	29 Jun 79	372		1	0	0	0	0				0.30
Main	8a	11 Jul 79	372		0	0	0	0	0				0.00
Main	9	24 Jun 80	285		0	0	0	0	0				0.00
Main	10	25 Jun 80	330		0	1	1	0	0		2.76		0.84
Main	11	27 Jun 80	421		0	0	0	0	0				0.00
MWM	26	2 Jul 80	353		0	0	0	0	0				0.00
MWM	31	28 Jul 80	328		0	0	0	0	0				0.00
MWM	34	26 Aug 80	758		0	0	0	0	0				0.00
MWM	36	17 Jul 80	380		0	0	0	0	0				0.00
MWM	37	16 Sep 80	295		0	0	0	0					0.00
MWM	38	18 Jul 80	414		0	0	0	0	0				0.00
MWM	39	15 Sep 80	316		0	0	0	0	0				0.00
MWM	40	3 Jul 80	367		0	0	0	0	0				0.00
MWM	41	7 Jul 80	373		0	0	0	0	0				0.00
MWM	43	15 Aug 80	219		0	0	0	0	0				0.00
MWM	44	17 Sep 80	263		0	1	0	0	0		1.06		0.40
MWM	45	5 Sep 80	282		1	0	0	0	0				0.39
MWM	46	10 Jul 80	376		1	0	0	0	0				0.30
SWM	48	11 Jul 80	320		1	0	0	0	0				0.35
SWM	49	3 Sep 80	326		0	0	0	0	0				0.00
SWM	53	10 Sep 80	298		0	1	0	0	0		1.06		0.36
SWM	55	8 Jul 80	274		0	0	0	0	0				0.00
SWM	57	29 Jul 80	302		0	0	0	0	0				0.00
SWM	59	11 Sep 80	249		0	0	0	0	0				0.00
SWM	60	21 Aug 80	271		0	0	0	0	0				0.00
SWM	62	13 Aug 80	289		0	0	0	0	0				0.00
SWM	64	28 Aug 80	219		1	0	0	0	0				0.51
SWM	65	4 Sep 80	434		0	0	1	0	0				0.26
SWM	66	27 Aug 80	330		0	0	0	0	0				0.00
SWM	70	8 Aug 80	431		0	0	0	0	0				0.00
SWM	71	12 Sep 80	350		0	0	0	0	0				0.00
SWM	74	8 Sep 80	352		0	0	1	0	0				0.32
SWM	75	10 Sep 80	218		0	0	0	0	0				0.00
SWM	77	14 Aug 80	412		0	0	0	0	0				0.00
SWM	79	26 Jun 80	258		0	1	0	0	0		1.06		0.41
SWM	81	1 Jul 80	381		0	0	0	0					0.00
SWM	82	4 Jul 80	320		0	0	0	0	0				0.00
SWM	83	30 Jun 80	224		0	0	0	0	0				0.00
SWM	84	11 Aug 80	366		0	1	0	0	0		1.06		0.29
SWM	85	12 Aug 80	305		0	0	0	0	0				0.00
SWM	86	28 Aug 80	522		1	1	1	0	1		8.56		1.64
SWM	88	20 Aug 80	313		0	0	0	0	0				0.00
SWM	91	22 Aug 80	262		0	0	1	0	0				0.42
SWM	92	21 Aug 80	187		0	0	0	0	0				0.00
SWM	94	21 Aug 80	160		0	0	0	0	0				0.00
Cains	7a	23 Jun 80	362		0	0	0	0	0				0.00
Main	8a	16 Jul 80	376		0	1	0	0	0		1.06		0.28
Main	9	22 Jun 81	245		0	0	0	0					0.00
Main	10	25 Jun 81	388		0	0	1	0	0				0.29
Main	11	10 Jul 81	427		0	0	0	0	0				0.00
MWM	26	29 Jun 81	282		1	1	0	0	0		2.01		0.71
MWM	28	1 Sep 81	842		2	1	0	0	0		3.00		0.36
MWM	31	11 Sep 81	265		1	0	0	0	0				0.42
MWM	33	10 Sep 81	396		2	2	1	0	1		7.26		1.83
MWM	34	27 Aug 81	710		1	0	2	0	0		3.63		0.51
MWM	36	27 Aug 81	341		1	0	0	1	0		2.76		0.81
MWM	37	28 Aug 81	295		0	0	0	0	0				0.00
MWM	38	28 Aug 81	379		0	0	0	0	0				0.00
MWM	39	24 Aug 81	321		0	1	0	0	0		1.06		0.33
MWM	40	3 Jul 81	385		2	2	0	1	0		5.31		1.38
MWM	41	1 Jul 81	329		2	0	0	0	0				0.68
MWM	43	29 Jul 81	272		0	0	0	0	0				0.00
MWM	44	25 Aug 81	245		1	0	1	0	0		2.13		0.87
MWM	45	31 Jul 81	260		5	0	0	0	0				2.14
MWM	46	30 Jun 81	258		0	0	0	0	0				0.00
SWM	48	24 Jul 81	359		0	0	0	0	0				0.00
SWM	49	12 Aug 81	317		1	1	0	1	0		3.63		1.14
SWM	53	30 Jul 81	290		0	0	0	0	0				0.00
SWM	55	13 Jul 81	266		0	0	0	0	0				0.00
SWM	57	17 Aug 81	388		1	1	1	0	0		3.19		0.82
SWM	60	5 Aug 81	337		1	0	0	0	0				0.33
SWM	62	14 Sep 81	249		0	0	0	0	0				0.00
SWM	64	4 Sep 81	196		0	0	0	0					0.00
SWM	65	2 Sep 81	352		0	0	0	0	0				0.00
SWM	66	15 Sep 81	308		0	0	0	0	0				0.00
SWM	70	22 Jul 81	311		0	0	0	0	0				0.00
SWM	71	13 Aug 81	333		0	1	0	0	0		1.06		0.32
SWM	74	17 Sep 81	376		0	0	0	1	0				0.30
SWM	75	28 Jul 81	266		0	0	0	0	0				0.00
SWM	76	18 Sep 81	184		0	0	0	0	0				0.00
SWM	77	31 Aug 81	287		2	1	0	1	0		4.25		1.48
SWM	79	27 Jul 81	238		0	0	0	0	1				0.47
SWM	81	6 Jul 81	239		0	0	0	0					0.00
SWM	82	7 Jul 81	371		0	0	0	0	0				0.00
SWM	83	2 Jul 81	243		0	0	0	0					0.00
SWM	84	26 Aug 81	373		1	1	0	1	0		3.63		0.97
SWM	85	16 Sep 81	312		0	0	0	0	0				0.00
SWM	86	3 Sep 81	432		2	1	0	0	0		3.00		0.69
SWM	88	4 Aug 81	224		1	0	0	0	0				0.50
SWM	91	5 Aug 81	258		0	0	0	0	0				0.00
SWM	92	6 Aug 81	185		0	0	0	0	0				0.00
SWM	94	5 Aug 81	144		0	0	0	0	0				0.00
Cains	7a	9 Sep 81	361		0	0	0	0	0				0.00
Main	8a	11 Aug 81	319		0	0	0	0	0				0.00
Main	1	15 Oct 82	567		57	32	19	9	6		130.24	8.80	22.95
Main	4	17 Sep 82	157		0	0	0	0					0.00
Main	6	4 Oct 82	186		0	0	0	0					0.00
Main	9	22 Jun 82	272		0	0	0	0	0				0.00

Table 22 (continued)

Branch[a]	Site	Date	Area (m^2)[b]	Number of eels per sweep in sweep no.						Zippin pop. est.		Eels/ 100 m^{2c}
				0.5[c]	1	2	3	4	5	6	Pop.	±90% CI	
Main	10	23 Jun 82	358	0	2	2	0	0			5.53		1.55
Main	11	29 Jun 82	420	0	0	0	0	0					0.00
Main	13	1 Oct 82	450	1	1	0	0	0			2.01		0.45
Main	17	10 Sep 82	345	19	7	3	2	0			31.32		9.09
MWM	18	7 Oct 82	359	0	0	0	0	0					0.00
MWM	19	7 Oct 82	210	0	0	0	0	0					0.00
MWM	21	16 Sep 82	371	0	0	0	0	0					0.00
MWM	22	23 Sep 82	433	0	0	0	0	0					0.00
MWM	23	23 Sep 82	289	0	0	0	0	0					0.00
MWM	24	21 Oct 82	220	1	0	0	1	0			2.76		1.26
MWM	26	5 Jul 82	276	0	0	0	0						0.00
MWM	27	6 Oct 82	360	0	0	0	0	0					0.00
MWM	28	23 Aug 82	866	2	3	2	0	0			7.44		0.86
MWM	29	13 Oct 82	471	0	0	0	0						0.00
MWM	30	13 Oct 82	495	1	0	0							0.25
MWM	31	1 Sep 82	309	0	0	0	0	0					0.00
MWM	33	25 Aug 82	398	4	0	1	0	0			5.01		1.26
MWM	34	19 Aug 82	735	0	1	0	0	0			1.06		0.14
MWM	35	18 Oct 82	514	0	0	0	0	0					0.00
MWM	36	19 Aug 82	347	1	0	0	0	0					0.32
MWM	37	27 Sep 82	307	0	0	0	0	0					0.00
MWM	38	20 Aug 82	392	0	1	0	0	0			1.06		0.27
MWM	39	15 Jul 82	316	0	0	0	0	0					0.00
MWM	40	16 Jul 82	368	2	0	0	1	0			3.19		0.87
MWM	41	31 Aug 82	332	0	0	0	0	0					0.00
MWM	43	13 Aug 82	287	0	2	1	0	0			3.63		1.27
MWM	44	13 Sep 82	254	0	1	1	0	0			2.76		1.09
MWM	45	22 Sep 82	273	2	1	0	0	1			4.62		1.70
MWM	46	28 Jun 82	261	0	0	0	0	0					0.00
SWM	47	20 Oct 82	379	0	0	0	0	0					0.00
SWM	48	9 Jul 82	335	0	0	0	0						0.00
SWM	49	4 Aug 82	326	0	0	0	0	0					0.00
SWM	52	20 Oct 82	284	0	0	0	0	0					0.00
SWM	53	14 Jul 82	305	0	0	0	0	0					0.00
SWM	55	12 Jul 82	263	0	0	0	0						0.00
SWM	56	28 Sep 82	370	0	0	0	0	0					0.00
SWM	57	3 Aug 82	340	0	0	0	0	0					0.00
SWM	58	19 Oct 82	392	0	0	0	0	0					0.00
SWM	59	28 Sep 82	206	0	0	0	0	0					0.00
SWM	60	6 Aug 82	353	2	1	0	0	0			3.00		0.85
SWM	61	6 Oct 82	289	0	0	0	0						0.00
SWM	62	16 Aug 82	336	0	0	0	0	0					0.00
SWM	63	30 Sep 82	280	0	0	0	0	0					0.00
SWM	64	19 Jul 82	214	1	0	0	0						0.55
SWM	65	20 Jul 82	344	0	0	0	0	0					0.00
SWM	66	27 Sep 82	353	0	0	0	0	0					0.00
SWM	67	7 Oct 82	418	0	0	0	0						0.00
SWM	69	24 Oct 82	332	0	0	0	0	0					0.00
SWM	70	13 Jul 82	312	0	0	0	0	0					0.00
SWM	71	21 Jul 82	335	0	0	0	0	0					0.00
SWM	72	30 Sep 82	294	0	0	0	0						0.00
SWM	73	29 Sep 82	194	1	0	0	0						0.60
SWM	74	12 Aug 82	437	0	0	0	0	0					0.00
SWM	75	21 Sep 82	282	0	0	0	0	0					0.00
SWM	76	21 Sep 82	199	0	0	0	0	0					0.00
SWM	77	22 Sep 82	299	0	0	0	0	0					0.00
SWM	79	20 Sep 82	260	0	0	0	0	0					0.00
SWM	80	18 Oct 82	343	0	0	0	0						0.00
SWM	81	6 Jul 82	243	0	0	0	0						0.00
SWM	82	7 Jul 82	393	0	0	1	0	0					0.28
SWM	83	8 Jul 82	251	0	0	0	0						0.00
SWM	84	20 Sep 82	388	1	1	0	0	0			2.01		0.52
SWM	85	17 Aug 82	323	0	0	0	0	0					0.00
SWM	86	14 Sep 82	542	1	0	0	0	0					0.21
SWM	88	30 Aug 82	231	0	0	0	0	0					0.00
SWM	89	19 Oct 82	373	0	0	0	0	0					0.00
SWM	90	5 Oct 82	290	0	0	0	0	0					0.00
SWM	91	5 Aug 82	269	1	2	1	0	0			4.25		1.58
SWM	92	5 Aug 82	195	0	0	0	0	0					0.00
SWM	94	5 Aug 82	150	0	0	0	0	0					0.00
SWM	95	14 Oct 82	207	0	0	0	0	0					0.00
SWM	96	14 Oct 82	260	0	0	0	0	0					0.00
SWM	97	15 Sep 82	404	12	4	2	0	1			19.22		4.76
SWM	98	15 Sep 82	385	0	1	1	1	0					0.87
Ren	12a	26 Oct 82	354	0	1	1	0	0			2.76		0.78
NWM	14a	24 Sep 82	412	1	2	0	1	1			12.67		3.07
NWM	15a	24 Sep 82	433	0	0	0	0						0.00
NWM	16a	1 Oct 82	282	17	14	9	4	2			50.69	9.22	18.00
Dun	2a	12 Oct 82	492	0	0	0	0	0					0.00
Cains	7a	18 Aug 82	361	0	0	0	0						0.00
Main	8a	2 Jul 82	367	0	0	0	0	0					0.00

Branch[a]	Site	Date	Area (m^2)[b]	Number of eels per sweep in sweep no.						Zippin pop. est.		Eels/ 100 m^{2c}
				0.5[c]	1	2	3	4	5	6	Pop.	±90% CI	
Main	1	13 Sep 83	410		6	3	3	2	1		17.48		4.26
Main	4	20 Sep 83	127		0	0	0	0	0				0.00
Main	6	21 Sep 83	116		0	0	0	0	0				0.00
Main	9	30 Jun 83	258		0	0	0	0					0.00
Main	10	28 Jun 83	315		1	1	0	0	0		2.01		0.64
Main	11	29 Jun 83	451		0	0	0	0	0				0.00
Main	13	19 Sep 83	303		3	0	1				4.36		1.44
Main	17	6 Oct 83	297		29	6	3	1	0		39.07		13.17
MWM	18	11 Oct 83	342		0	0	0	0	0				0.00
MWM	19	27 Sep 83	200		0	1	0	1	1				1.67
MWM	21	12 Sep 83	283		0	0	0	0	0				0.00
MWM	22	9 Sep 83	329		0	0	0	0	0				0.00
MWM	23	7 Oct 83	263		0	0	0	0	0				0.00
MWM	24	3 Oct 83	251		0	0	0	0	0				0.00
MWM	26	8 Jul 83	245		1	0	0	0	0				0.45
MWM	27	4 Oct 83	228		0	0	0	0	0				0.00
MWM	28	16 Aug 83	583		5	4	2	1	0		12.54		2.15
MWM	29	12 Oct 83	442		0	0	0						0.00
MWM	30	12 Oct 83	455		0	2	0	0			2.46		0.54
MWM	31	28 Jul 83	306		0	0	1	0	0				0.36
MWM	33	20 Jul 83	402		1	0	1	1	0		5.27		1.31
MWM	34	27 Jul 83	516		0	1	0	0	0		1.06		0.21
MWM	35	28 Sep 83	299		0	0	0	0	0				0.00
MWM	36	27 Jul 83	306		0	0	0	0	0				0.00
MWM	37	21 Jul 83	215		0	0	0	0	0				0.00
MWM	38	7 Jul 83	505		0	0	0	0					0.00
MWM	39	12 Jul 83	323		0	0	0	0	0				0.00
MWM	40	14 Jul 83	325		2	2	1	0	0		5.14		1.58
MWM	41	19 Jul 83	273		0	0	0	0	0				0.00
MWM	43	12 Aug 83	282		0	0	0	0					0.00
MWM	44	5 Jul 83	235		0	0	0	0	0				0.00
MWM	45	8 Aug 83	208		1	0	1	0	4				3.21
MWM	46	13 Jul 83	234		1	0	0	0	0				0.48
SWM	47	18 Oct 83	308		1	1	0	1	0		3.63		1.18
SWM	48	22 Jul 83	357		0	0	0	0	0				0.00
SWM	49	26 Jul 83	303		0	0	0	0	0				0.00
SWM	52	19 Oct 83	311		0	0	0	0	0				0.00
SWM	53	11 Jul 83	275		0	0	0	0	0				0.00
SWM	55	25 Jul 83	323		0	0	0	0	0				0.00
SWM	56	17 Aug 83	232		0	0	0	0					0.00
SWM	57	3 Aug 83	291		0	0	0	0	0				0.00
SWM	58	26 Oct 83	339		0	0	0	0	0				0.00
SWM	59	6 Sep 83	270		2	1	0	0	0		3.00		1.11
SWM	60	11 Aug 83	265		0	0	0	0	0				0.00
SWM	61	24 Oct 83	295		0	0	0	0	0				0.00
SWM	62	31 Aug 83	266		1	0	0	0	0				0.42
SWM	63	25 Oct 83	306		0	0	0	0	0				0.00
SWM	64	2 Aug 83	156		1	0	0	0	0				0.71
SWM	65	7 Sep 83	393		0	0	0	0	0				0.00
SWM	66	8 Sep 83	359		0	0	0	0	0				0.00
SWM	67	20 Oct 83	414		0	0	0	0	0				0.00
SWM	70	4 Aug 83	184		0	0	0	0					0.00
SWM	71	5 Aug 83	287		0	0	0	0	0				0.00
SWM	72	28 Oct 83	314		0	0	0	0	0				0.00
SWM	73	21 Oct 83	141		0	0	0	0	0				0.00
SWM	74	23 Aug 83	370		0	0	1	0	1				0.60
SWM	75	1 Sep 83	277		1	0	0	0	0				0.40
SWM	76	15 Jul 83	293		0	0	0	0	0				0.00
SWM	77	26 Aug 83	303		1	0	0	0	0				0.37
SWM	79	9 Aug 83	303		0	0	0	0	0				0.00
SWM	81	4 Jul 83	242		0	0	0	0					0.00
SWM	82	15 Aug 83	340		2	0	0	0	0				0.65
SWM	83	2 Sep 83	221		0	0	0	0					0.00
SWM	84	24 Aug 83	324		3	1	0	0	1		5.31		1.64
SWM	85	29 Aug 83	293		0	0	0	0	0				0.00
SWM	86	25 Aug 83	459		2	1	0	1	0		4.25		0.93
SWM	88	30 Aug 83	171		0	0	0	0	0				0.00
SWM	89	31 Oct 83	336		0	0	0	0	0				0.00
SWM	90	27 Oct 83	261		0	0	0	0	0				0.00
SWM	91	10 Aug 83	266		0	0	0	0	0				0.00
SWM	92	10 Aug 83	215		0	0	0	0	0				0.00
SWM	94	10 Aug 83	161		0	0	0	0	0				0.00
SWM	97	29 Sep 83	518		7	3	3	2	1		18.00		3.48
SWM	98	30 Sep 83	227		1	0	0	1	0		2.76		1.22
Ren	12a	14 Sep 83	349		3	2	2	1	1		11.80		3.38
NWM	14a	13 Oct 83	403		1	1	0	3	1				1.65
NWM	15a	14 Oct 83	362		0	0	0	0	0				0.00
NWM	16a	26 Sep 83	276		22	15	8	5	3		57.74	8.71	20.89
Dun	2a	15 Sep 83	494		0	0	0	0					0.00
Cains	7a	18 Aug 83	275		0	0	0	0	0				0.00
Main	8a	27 Jun 83	470		4	5	5	2	2		28.67		6.10

Table 22 (continued)

Branch[a]	Site	Date	Area (m^2)[b]	Number of eels per sweep in sweep no.						Zippin pop. est.		Eels/ 100 m^2
				0.5[c]	1	2	3	4	5	6	Pop.	±90% CI	
Main	1	30 Aug 84	400		1	1	2	0			7.21		1.80
Main	4	11 Jul 84	112		0	0	0	0					0.00
Main	6	11 Jul 84	128		0	0	0	0					0.00
Main	9	25 Jun 84	260		0	0	0	0					0.00
Main	10	10 Aug 84	283		0	0	0	0					0.00
Main	11	10 Sep 84	385		1	0	0	0					0.30
Main	13	28 Aug 84	311		2	1	0	0			3.01		0.97
Main	17	6 Jul 84	340		6	5	3	2			20.90		6.15
MWM	18	4 Jul 84	311		2	0	1				3.79		1.22
MWM	19	9 Jul 84	193		0	0	0	0					0.00
MWM	21	16 Jul 84	313		0	0	0	0					0.00
MWM	22	16 Jul 84	272		1	0	1	0			2.46		0.90
MWM	23	8 Aug 84	263		0	0	0	0					0.00
MWM	24	2 Aug 84	263		2	0	0	0					0.89
MWM	26	19 Jul 84	251		0	0	0	0					0.00
MWM	27	20 Jul 84	276		0	0	0	0					0.00
MWM	28	3 Aug 84	582		4	1	0	0			5.00		0.86
MWM	29	13 Aug 84	436		2	0	0	0					0.54
MWM	30	13 Aug 84	489		0	1	0	0			1.23		0.25
MWM	31	18 Jul 84	283		0	0	1	0					0.41
MWM	33	22 Aug 84	410		7	2	1	0			10.08		2.46
MWM	34	25 Jul 84	527		0	0	0	0					0.00
MWM	35	16 Aug 84	325		0	0	0	0					0.00
MWM	36	22 Aug 84	313		0	0	0	0					0.00
MWM	37	14 Aug 84	237		0	1	0	0			1.23		0.52
MWM	38	18 Jul 84	466		0	0	1	0					0.25
MWM	39	30 Jul 84	335		0	0	0	0					0.00
MWM	40	5 Jul 84	401		0	0	0	0					0.00
MWM	41	17 Aug 84	193		0	0	0	0					0.00
MWM	43	24 Aug 84	282		0	0	0	0					0.00
MWM	44	31 Jul 84	249		2	0	1	0			3.14		1.26
MWM	45	31 Jul 84	206		0	0	0	0					0.00
MWM	46	9 Jul 84	247		1	0	0	0					0.47
SWM	47	28 Aug 84	303		6	2	1	0			9.11		3.01
SWM	48	1 Aug 84	306		0	0	0	0					0.00
SWM	49	23 Jul 84	260		0	0	0	0					0.00
SWM	52	27 Aug 84	304		0	0	0	0					0.00
SWM	53	23 Jul 84	279		0	0	0	0					0.00
SWM	55	27 Jul 84	334		0	0	0	0					0.00
SWM	56	26 Jul 84	228		0	0	0	0					0.00
SWM	57	26 Jul 84	328		0	0	0	0					0.00
SWM	58	6 Sep 84	327		0	0	0	0					0.00
SWM	59	21 Aug 84	302		2	1	0	0			3.01		1.00
SWM	60	16 Aug 84	278		0	0	0	0					0.00
SWM	61	29 Aug 84	286		0	0	0	0					0.00
SWM	62	20 Aug 84	275		4	1	0	0			5.00		1.82
SWM	63	14 Sep 84	341		0	0	0	0					0.00
SWM	64	9 Aug 84	199		0	0	0	0					0.00
SWM	65	23 Aug 84	412		0	0	0	0					0.00
SWM	66	7 Aug 84	343		0	0	0	0					0.00
SWM	67	30 Aug 84	399		0	0	0						0.00
SWM	69	6 Sep 84	417		0	0	0	0					0.00
SWM	70	8 Aug 84	226		0	0	0	0					0.00
SWM	71	17 Aug 84	302		0	0	0	0					0.00
SWM	72	17 Jul 84	289		0	0	0	0					0.00
SWM	73	4 Sep 84	132		0	0	0	0					0.00
SWM	74	1 Aug 84	429		2	0	0	0					0.54
SWM	75	27 Aug 84	310		1	1	0	0			2.04		0.66
SWM	76	2 Aug 84	280		0	0	0	0					0.00
SWM	77	20 Sep 84	320		3	0	1	2			14.46		4.51
SWM	79	22 Jul 84	332		0	0	0	0					0.00
SWM	80	7 Sep 84	217		0	0	0	0					0.00
SWM	81	26 Jun 84	231		0	0	0	0					0.00
SWM	82	17 Jul 84	327		0	0	0	0					0.00
SWM	83	3 Jul 84	268		0	0	0	0					0.00
SWM	84	15 Aug 84	408		2	1	0	0			3.01		0.74
SWM	85	14 Aug 84	304		0	0	0	0					0.00
SWM	86	7 Aug 84	471		4	1	0	0			5.00		1.06
SWM	88	19 Jul 84	220		0	0	1	0					0.53
SWM	89	21 Aug 84	298		0	0	0	0					0.00
SWM	90	23 Aug 84	253		0	0	0	0					0.00
SWM	91	15 Aug 84	290		0	0	0	0					0.00
SWM	92	15 Aug 84	169		0	0	0	0					0.00
SWM	94	15 Aug 84	228		0	0	0	0					0.00
SWM	95	24 Jul 84	290		0	0	0	0					0.00
SWM	96	24 Jul 84	244		0	0	0	0					0.00
SWM	97	31 Aug 84	512		4	1	0	0			5.00		0.98
SWM	98	29 Aug 84	229		1	1	0	0			2.04		0.89
Ren	12a	5 Sep 84	421		1	0	0	0					0.28
NWM	14a	31 Aug 84	419		3	0	0	0					0.84
NWM	15a	7 Sep 84	343		0	0	0	0					0.00
NWM	16a	5 Sep 84	267		7	2	1	0			10.08		3.78
Dun	2a	11 Sep 84	374		0	0	0	0					0.00
Cains	7a	30 Jul 84	280		0	0	0	0					0.00
Main	8a	24 Aug 84	493		0	0	0	0					0.00
Main	4	26 Jun 85	141		0	0	0	0					0.00
Main	9	24 Jun 85	228		0	0	0	0					0.00
Main	10	27 Aug 85	212		1	1	0				2.18		1.03
Main	11	26 Aug 85	362		0	0	0	0					0.00
MWM	23	2 Jul 85	276		1	1	1	0			3.69		1.34
MWM	26	9 Sep 85	279		0	0	0	0					0.00
MWM	33	12 Sep 85	416		0	0	0	0					0.00
MWM	34	6 Sep 85	534		0	1	0	0			1.23		0.23
MWM	36	5 Sep 85	234		0	0	0	0					0.00
MWM	40	22 Jul 85	330		0	0	0	0					0.00
MWM	41	3 Jul 85	248		0	0	0						0.00
MWM	43	19 Aug 85	246		0	0	0	0					0.00
MWM	44	6 Aug 85	254		1	1	0	0			2.04		0.80
MWM	45	12 Aug 85	229		0	0	0	0					0.00
MWM	46	15 Jul 85	188		0	0	0	0					0.00
SWM	48	9 Aug 85	230		0	0	0	0					0.00
SWM	49	26 Jul 85	261		0	0	0	0					0.00
SWM	58	10 Sep 85	174		0	0	0	0					0.00
SWM	60	15 Aug 85	293		0	0	0	0					0.00
SWM	62	7 Aug 85	206		0	0	0	0					0.00
SWM	64	3 Sep 85	188		1	0	0	0					0.62
SWM	65	21 Aug 85	434		0	0	0	0					0.00
SWM	70	13 Aug 85	199		0	0	0	0					0.00
SWM	72	27 Jun 85	303		1	0	0	0					0.39
SWM	74	8 Aug 85	388		2	1	0	0			3.01		0.78
SWM	75	14 Aug 85	239		0	0	0	0					0.00
SWM	76	29 Aug 85	237		0	0	0	0					0.00
SWM	77	29 Jul 85	280		0	0	0	0					0.00
SWM	80	5 Jul 85	230		0	0	0	0					0.00
SWM	81	4 Jul 85	244		0	0	0	0					0.00
SWM	82	24 Jul 85	373		0	0	0	0					0.00
SWM	83	23 Jul 85	227		0	0	0	0					0.00
SWM	84	31 Jul 85	337		0	0	0	0					0.00
SWM	88	30 Jul 85	259		1	0	0	0					0.45
SWM	89	4 Sep 85	189		0	0	0	0					0.00
SWM	91	15 Aug 85	242		1	0	1	1					1.45
SWM	92	16 Aug 85	156		0	0	0	0					0.00
SWM	94	15 Aug 85	125		0	0	0	0					0.00
Cains	7a	28 Aug 85	187		0	0	0						0.00
Main	8a	25 Jul 85	509		0	0	0	0					0.00
Main	9	7 Jul 86	223		0	0	0	0					0.00
Main	10	29 Jul 86	211		0	1	0	1					1.11
Main	11	1 Sep 86	387		0	0	0	0					0.00
MWM	26	22 Aug 86	318		0	1	0	0			1.23		0.39
MWM	35	21 Aug 86	145		0	0	0	0					0.00
MWM	36	19 Aug 86	248		0	0	0	0					0.00
MWM	40	8 Jul 86	286		1	0	0	1					0.82
MWM	43	8 Aug 86	280		0	0	0	0					0.00
MWM	44	6 Aug 86	259		0	0	0	0					0.00
MWM	45	7 Aug 86	237		0	0	0	0					0.00
MWM	46	23 Jul 86	208		0	0	0	0					0.00
SWM	48	11 Jul 86	169		0	0	0	0					0.00
SWM	49	13 Aug 86	272		0	0	0	0					0.00
SWM	60	15 Aug 86	288		0	0	0	0					0.00
SWM	62	5 Sep 86	211		0	0	0	0					0.00
SWM	65	4 Sep 86	443		0	0	0	0					0.00
SWM	70	28 Jul 86	228		0	0	0	0					0.00
SWM	74	3 Sep 86	304		0	1	0	1					0.77
SWM	75	2 Sep 86	244		0	0	0	0					0.00
SWM	77	25 Jul 86	250		0	0	0	0					0.00
SWM	79	18 Aug 86	223		0	0	0	0					0.00
SWM	81	14 Jul 86	231		0	0	0	0					0.00
SWM	82	24 Jul 86	373		0	0	0	0					0.00
SWM	83	16 Jul 86	201		0	0	0	0					0.00
SWM	84	9 Jul 86	235		0	0	0	0					0.00
SWM	88	5 Aug 86	272		0	0	0	0					0.00
SWM	89	27 Aug 86	242		0	0	0	0					0.00
SWM	91	14 Aug 86	248		0	1	0	0			1.23		0.50
SWM	92	14 Aug 86	163		0	0	0	0					0.00
SWM	94	14 Aug 86	129		0	0	0	0					0.00
Cains	7a	30 Jul 86	203		0	1	1	0					1.15
Main	8a	10 Jul 86	424		0	0	0	0					0.00
Main	9	13 Jul 87	207		0	0	0	0					0.00
MWM	40	17 Jul 87	243		0	0	0	0					0.00
MWM	43	10 Jul 87	137		0	0	0	0					0.00
MWM	44	24 Jul 87	150		0	1	0	0			1.23		0.82
MWM	46	15 Jul 87	179		0	0	0	0					0.00

Table 22 (continued)

Branch[a]	Site	Date	Area (m^2)[b]	Number of eels per sweep in sweep no						Zippin pop. est. Pop	±90% CI	Eels/ 100 m^2[c]
				0.5[c]	1	2	3	4	5	6			
SWM	60	14 Jul 87	253		0	0	0	0					0.00
SWM	62	7 Jul 87	260		1	1	0	0			2.04		0.78
SWM	74	23 Jul 87	325		1	0	0	0					0.36
SWM	75	20 Jul 87	117		0	0	0	0					0.00
SWM	77	22 Jul 87	146		0	0	0	0					0.00
SWM	79	16 Jul 87	183		0	0	0	0					0.00
SWM	82	8 Jul 87	323		0	0	0	0					0.00
SWM	84	9 Jul 87	208		0	0	0	0					0.00
SWM	92	21 Jul 87	166		0	0	0	0					0.00
Cains	7a	6 Jul 87	179		1	0	0	0					0.65
Main	9	8 Jul 88	192		0	0	0	0					0.00
MWM	40	6 Jul 88	298		0	0	0	0					0.00
MWM	43	22 Jul 88	145		0	0	0	0					0.00
MWM	44	14 Jul 88	147		1	0	0	0					0.80
MWM	46	19 Jul 88	180		0	0	0	0					0.00
SWM	60	13 Jul 88	216		0	0	0	0					0.00
SWM	62	5 Jul 88	209		1	0	0	0					0.56
SWM	74	21 Jul 88	365		0	0	0	0					0.00
SWM	75	18 Jul 88	139		0	0	0	0					0.00
SWM	77	11 Jul 88	245		0	0	0						0.00
SWM	79	5 Jul 88	191		0	0	0						0.00
SWM	82	20 Jul 88	251		0	0	0	0					0.00
SWM	84	12 Jul 88	227		2	1	1	0			4.29		1.89
SWM	92	13 Jul 88	146		1	0	0	0					0.80
Cains	7a	15 Jul 88	170		0	0	0	0					0.00
Main	9	10 Jul 89	174		0	0	0	0					0.00
MWM	40	30 Jun 89	205		0	0	0						0.00
MWM	43	21 Jul 89	167		0	0	0	0					0.00
MWM	44	3 Jul 89	177		0	0	0						0.00
MWM	46	14 Jul 89	195		0	0	0	0					0.00
SWM	60	19 Jul 89	249		0	0	0	0					0.00
SWM	62	29 Jun 89	151		0	0	0	0					0.00
SWM	74	20 Jul 89	262		0	0	0	0					0.00
SWM	75	17 Jul 89	138		0	0	0	0					0.00
SWM	77	11 Jul 89	185		0	0	0	0					0.00
SWM	79	4 Jul 89	223		0	0	0						0.00
SWM	82	12 Jul 89	259		0	0	0	0					0.00
SWM	84	18 Jul 89	190		1	1	0	0			2.04		1.07
SWM	92	13 Jul 89	155		0	0	0	0					0.00
Cains	7a	5 Jul 89	113		0	0	0	0					0.00
Main	9	3 Jul 90	175		0	0	0						0.00
MWM	40	6 Jul 90	193		0	0	0	0					0.00
MWM	43	13 Jul 90	131		1	0	0	0					0.89
MWM	44	5 Jul 90	149		1	0	0						0.84
MWM	46	16 Jul 90	188		0	0	0						0.00
SWM	60	17 Jul 90	164		0	0	0	0					0.00
SWM	62	12 Jul 90	157		0	0	0	0					0.00
SWM	74	20 Jul 90	246		0	0	0	0					0.00
SWM	75	10 Jul 90	168		0	0	0	0					0.00
SWM	77	11 Jul 90	184		0	0	0	0					0.00
SWM	79	12 Jul 90	196		0	0	0	0					0.00
SWM	82	19 Jul 90	268		0	0	0	0					0.00
SWM	84	4 Jul 90	210		3	1	0	0			4.01		1.91
SWM	92	17 Jul 90	145		0	0	0	0					0.00
Cains	7a	18 Jul 90	129		0	0	0	0					0.00
MWM	40	5 Aug 91	143		0	0	0						0.00
MWM	46	4 Aug 91	294		0	0	0						0.00
SWM	82	4 Aug 91	294		0	0	0	0					0.00
Main	9	29 Jul 92	250		0	0	0						0.00
MWM	40	9 Jul 92	172		0	0	0						0.00
MWM	43	28 Jul 92	78		1	0	0						1.60
MWM	44	27 Jul 92	101		0	0	0	0					0.00
MWM	46	17 Jul 92	194		0	0	0						0.00
SWM	60	22 Jul 92	186		0	0	0	0					0.00
SWM	62	23 Jul 92	137		0	0	0	0					0.00
SWM	74	20 Jul 92	248		0	0	0						0.00
SWM	77	30 Jul 92	132		0	0	0	0					0.00
SWM	79	15 Jul 92	271		0	0	0	0					0.00
SWM	82	8 Jul 92	256		0	0	0						0.00
SWM	84	7 Jul 92	232		0	1	0	0			1.23		0.53
SWM	92	21 Jul 92	158		0	0	0	0					0.00
Cains	7a	31 Jul 92	124		0	0	0						0.00
Main	9	11 Aug 93	200		0	0	0	0					0.00
MWM	18	26 Aug 93	122	0									0.00
MWM	20	26 Aug 93	131	0									0.00
MWM	22	26 Aug 93	160	0									0.00
MWM	23	27 Aug 93	52	0									0.00
MWM	24	10 Sep 93	4	0									0.00
MWM	26	20 Aug 93	53	0									0.00
MWM	27	26 Aug 93	233	0									0.00
MWM	28	26 Aug 93	363	0									0.00
MWM	29	25 Aug 93	185	0									0.00
MWM	31	12 Aug 93	210	0	2	0	0	0					1.11
MWM	32	25 Aug 93	132	0									0.00
MWM	34	17 Aug 93	84	0	0	0	0	0					0.00
MWM	37	25 Aug 93	250	0									0.00
MWM	38	23 Aug 93	164	0	0	0	0	0					0.00
MWM	39	19 Aug 93	13	0									0.00
MWM	40	14 Jul 93	193	0	1	0	0	0					0.60
MWM	41	20 Aug 93	67	0									0.00
MWM	42	19 Aug 93	176	0									0.00
MWM	43	30 Jul 93	89	0	1	0	0						1.49
MWM	44	22 Jul 93	174	0	0	0	0	0					0.00
MWM	45	30 Aug 93	140	2									11.37
MWM	46	21 Jul 93	210	0	0	0	0	0					0.00
SWM	47	30 Aug 93	176	0									0.00
SWM	48	27 Aug 93	219	1									3.63
SWM	51	27 Aug 93	176	0									0.00
SWM	52	30 Aug 93	439	0									0.00
SWM	53	30 Aug 93	176	0									0.00
SWM	55	31 Aug 93	176	1									4.51
SWM	56	31 Aug 93	176	1									4.52
SWM	57	31 Aug 93	112	0									0.00
SWM	58	9 Sep 93	326	1									2.44
SWM	59	2 Sep 93	176	0									0.00
SWM	60	23 Jul 93	191	0									0.00
SWM	60	28 Jul 93	191		0	0	0						0.00
SWM	61	1 Sep 93	138	1									5.78
SWM	62	12 Aug 93	111	0	0	0	0	0					0.00
SWM	63	9 Sep 93	153	0									0.00
SWM	64	1 Sep 93	27	0									0.00
SWM	65	7 Sep 93	152	1									5.23
SWM	67	1 Sep 93	176	0									0.00
SWM	68	31 Aug 93	176	0									0.00
SWM	69	7 Sep 93	66	0									0.00
SWM	70	9 Sep 93	176	0									0.00
SWM	71	1 Sep 93	100	0									0.00
SWM	72	8 Sep 93	176	0									0.00
SWM	73	8 Sep 93	176	0									0.00
SWM	74	9 Aug 93	186	0	1	0	0	0					0.63
SWM	75	4 Aug 93	123	0	0	0	0	0					0.00
SWM	76	8 Sep 93	169	0									0.00
SWM	77	10 Aug 93	146	0									0.00
SWM	77	10 Aug 93	141		0	0	0	0					0.00
SWM	78	8 Sep 93	35	0									0.00
SWM	79	13 Jul 93	256	0	0	0	0						0.00
SWM	80	31 Aug 93	176	0									0.00
SWM	81	31 Aug 93	176	0									0.00
SWM	82	5 Aug 93	264	0	0	0	0	0					0.00
SWM	83	8 Sep 93	176	0									0.00
SWM	84	20 Jul 93	213	0									0.00
SWM	84	20 Jul 93	213		0	0	0	0					0.00
SWM	85	9 Sep 93	176	0									0.00
SWM	86	2 Sep 93	471	1									1.69
SWM	87	9 Sep 93	176	0									0.00
SWM	88	9 Sep 93	213	0									0.00
SWM	89	2 Sep 93	176	0									0.00
SWM	90	2 Sep 93	176	0									0.00
SWM	92	29 Jul 93	162	0	0	0	0	0					0.00
SWM	95	7 Sep 93	99	1									8.05
SWM	96	7 Sep 93	176	0									0.00
SWM	97	8 Sep 93	270	0									0.00
SWM	98	8 Sep 93	142	0									0.00
Cains	7a	6 Aug 93	138		0	0	0	0					0.00
Cains	7	15 Jul 94	116	0	0	0	0						0.00
Cains	9	8 Aug 94	214	0	0	0	0						0.00
MWM	18	22 Jul 94	122		0								0.00
MWM	20	10 Aug 94	131		0								0.00
MWM	22	10 Aug 94	160		0								0.00
MWM	23	13 Jul 94	52		1								5.69
MWM	24	18 Jul 94	4		0								0.00
MWM	26	27 Jul 94	53		0								0.00
MWM	27	11 Aug 94	233		0								0.00
MWM	28	22 Jul 94	363		0								0.00
MWM	29	11 Aug 94	185		0								0.00
MWM	31	11 Aug 94	234		0								0.00
MWM	32	11 Aug 94	132		0								0.00
MWM	33	2 Aug 94	300		0								0.00
MWM	34	2 Aug 94	192		0								0.00
MWM	35	2 Aug 94	69		0								0.00
MWM	38	22 Jul 94	83		0								0.00
MWM	39	21 Jul 94	13		0								0.00

Table 22 (continued)

Branch[a]	Site	Date	Area (m^2)[b]	Number of eels per sweep in sweep no.						Zippin pop. est.		Eels/ 100 m^{2c}
				0.5[c]	1	2	3	4	5	6	Pop. ±90% CI	
MWM	40	20 Jul 94	181		1	0	0					0.69
MWM	41	20 Jul 94	67		0							0.00
MWM	43	19 Jul 94	280		0							0.00
MWM	44	19 Jul 94	321		0							0.00
MWM	45	26 Jul 94	140		0							0.00
MWM	46	25 Jul 94	93		0	0	0					0.00
SWM	48	4 Aug 94	219		0							0.00
SWM	52	12 Aug 94	439		0							0.00
Ren	54	4 Aug 94	339		0	0	0					0.00
SWM	55	16 Aug 94	176		0							0.00
SWM	57	16 Aug 94	112		0							0.00
SWM	58	18 Aug 94	326		0							0.00
SWM	60	25 Aug 94	181		0	0	0					0.00
SWM	62	23 Aug 94	190		1	0	0					0.66
SWM	63	18 Aug 94	153		0							0.00
SWM	64	24 Aug 94	27		1							11.11
SWM	69	29 Aug 94	66		0							0.00
SWM	71	24 Aug 94	100		0							0.00
SWM	74	3 Aug 94	175		0	0	0					0.00
SWM	76	3 Aug 94	169		0							0.00
SWM	77	15 Aug 94	230		0	0	0					0.00
SWM	78	24 Aug 94	35		0							0.00
SWM	79	9 Aug 94	175		0	0	0					0.00
SWM	82	14 Jul 94	749		0	0	0					0.00
SWM	84	28 Jul 94	173		0	0	0					0.00
SWM	86	18 Aug 94	471		0							0.00
SWM	88	26 Aug 94	213		0							0.00
SWM	92	30 Aug 94	161		0	0	0					0.00
SWM	95	29 Aug 94	99		0							0.00
SWM	97	17 Aug 94	270		0	0	0					0.00
SWM	100	19 Jul 94	118		0							0.00
NWM	101	19 Jul 94	323		0							0.00
NWM	102	19 Jul 94	32		0							0.00
Sev	103	21 Jul 94	192		0	0	0					0.00
Sev	104	22 Jul 94	153		0							0.00
NWM	105	26 Jul 94	84		1							3.52
NWM	106	26 Jul 94	150		0							0.00
NWM	106	26 Jul 94	55		0							0.00
NWM	107	26 Jul 94	203		1							1.45
NWM	107	26 Jul 94	26		1							11.34
NWM	108	2 Aug 94	102		0							0.00
NWM	109	2 Aug 94	90		0							0.00
SWM	110	3 Aug 94	85		0							0.00
NWM	111	6 Aug 94	43		0							0.00
NWM	112	6 Aug 94	13		0							0.00
NWM	112	6 Aug 94	24		0							0.00
Tom	113	10 Aug 94	307		0							0.00
NWM	114	10 Aug 94	303		0							0.00
NWM	115	11 Aug 94	328		0							0.00
SWM	116	12 Aug 94	74		0							0.00
SWM	117	16 Aug 94	221		0							0.00
SWM	118	16 Aug 94	112		0							0.00
SWM	119	18 Aug 94	116		0							0.00
SWM	120	22 Aug 94	157		0							0.00
SWM	121	22 Aug 94	135		0							0.00
SWM	122	22 Aug 94	140		0							0.00
SWM	123	22 Aug 94	251		0							0.00
SWM	125	26 Aug 94	57		0							0.00
SWM	126	29 Aug 94	65		0							0.00
SWM	127	29 Aug 94	200		0							0.00
SWM	128	31 Aug 94	96		0							0.00
SWM	129	31 Aug 94	139		0							0.00
SWM	130	31 Aug 94	98		0							0.00
SWM	131	1 Sep 94	449		1							0.66
NWM	132	1 Sep 94	83		0							0.00
NWM	133	1 Sep 94	80		0							0.00
NWM	134	1 Sep 94	152		0							0.00
NWM	135	1 Sep 94	204		0							0.00
Ren	12b	12 Aug 94	223		1							1.32
NWM	14b	2 Aug 94	163		0							0.00
MWM	20	14 Sep 95	79	0								0.00
MWM	30	15 Sep 95	151	0								0.00
MWM	32	14 Sep 95	132	0								0.00
MWM	34	14 Sep 95	90	0								0.00
MWM	37	15 Sep 95	250	0								0.00
MWM	38	13 Sep 95	164	0	0	0	0					0.00
MWM	40	12 Sep 95	155	0	0	0	0					0.00
MWM	43	26 Sep 95	98	0								0.00
MWM	44	26 Sep 95	150	0								0.00
MWM	45	26 Sep 95	230	0								0.00
MWM	46	26 Sep 95	78	0								0.00

Branch[a]	Site	Date	Area (m^2)[b]	Number of eels per sweep in sweep no.						Zippin pop. est.		Eels/ 100 m^{2c}
				0.5[c]	1	2	3	4	5	6	Pop. ±90% CI	
SWM	50	21 Aug 95	228	0								0.00
Ren	54	22 Aug 95	300	0	0	1	0					0.44
SWM	55	30 Aug 95	112	0	0	0	0					0.00
SWM	60	17 Aug 95	218	0								0.00
SWM	62	17 Aug 95	121	0								0.00
SWM	74	28 Aug 95	156	0	0	0	0					0.00
SWM	77	29 Aug 95	230	0	0	0	0					0.00
SWM	79	14 Aug 95	209	0	0	0	0					0.00
SWM	82	15 Aug 95	132	0	0	0	0					0.00
SWM	84	16 Aug 95	203	0	0	1	0					0.65
SWM	86	31 Aug 95	134	0								0.00
SWM	92	17 Aug 95	117	0								0.00
Sev	103	23 Aug 95	177	1	1	0	0					1.50
NWM	105	22 Sep 95	87	0								0.00
NWM	107	22 Sep 95	234	0								0.00
NWM	107	22 Sep 95	239	0								0.00
NWM	115	14 Sep 95	171	0								0.00
SWM	116	21 Aug 95	385	0								0.00
SWM	117	21 Aug 95	338	0								0.00
SWM	119	18 Aug 95	180	0								0.00
SWM	128	31 Aug 95	283	0								0.00
SWM	129	31 Aug 95	147	0								0.00
SWM	131	1 Sep 95	132	0								0.00
NWM	150	1 Sep 95	111	0								0.00
Cains	7	9 May 96	132	0								0.00
Cains	9	9 May 97	187	0								0.00
MWM	33	28 Aug 96	286	0								0.00
MWM	34	28 Aug 96	85	0								0.00
MWM	35	28 Aug 96	70	0								0.00
MWM	38	28 Aug 96	172	0								0.00
MWM	39	29 Aug 96	161	0								0.00
MWM	40	30 Aug 96	154	1	1	0	0					1.72
MWM	41	27 Aug 96	137	0								0.00
MWM	45	9 Jun 96	290	5								13.72
MWM	46	9 Jun 96	176	0								0.00
SWM	48	9 Sep 96	289	0								0.00
Ren	54	9 Sep 96	253	0								0.00
SWM	55	9 May 96	303	0	0	0	0					0.00
SWM	57	9 May 96	671	0								0.00
Sev	103	27 Aug 96	230	1	1	1	0				3.18	1.38
NWM	109	28 Aug 96	90	0								0.00
SWM	116	9 Sep 96	127	0								0.00
SWM	117	9 Sep 96	104	0								0.00
SWM	119	9 Oct 96	103	0								0.00
SWM	131	9 May 97	97	0								0.00
NWM	145	9 Jun 96	271	0								0.00
NWM	146	29 Aug 96	210	0								0.00
NWM	147	29 Aug 96	113	0								0.00
NWM	152	29 Aug 96	192	0								0.00
NWM	153	29 Aug 96	94	0								0.00
Ren	12b	9 Sep 96	178	0								0.00
NWM	15b	3 Sep 96	156	0								0.00
Dun	2b	9 May 96	168	0								0.00
MWM	20	26 Aug 97	222	0								0.00
MWM	23	27 Aug 97	74	0								0.00
MWM	24	27 Aug 97	393	0								0.00
MWM	26	26 Aug 97	157	0								0.00
MWM	30	26 Aug 97	128	2								12.42
MWM	31	27 Aug 97	108	0								0.00
MWM	33	28 Aug 97	101	0								0.00
MWM	34	19 Sep 97	109	0								0.00
MWM	35	19 Sep 97	73	0								0.00
MWM	38	27 Aug 97	159	0								0.00
MWM	39	29 Aug 97	171	0								0.00
MWM	40	28 Aug 97	174	0	0	0	0					0.00
MWM	43	3 Oct 97	480	0								0.00
MWM	44	3 Oct 97	254	0								0.00
MWM	45	1 Oct 97	290	0								0.00
MWM	46	2 Oct 97	176	0	0	0	0					0.00
SWM	48	29 Aug 97	186	0								0.00
SWM	52	29 Aug 97	191	0								0.00
Ren	54	29 Aug 97	279	0								0.00
SWM	55	16 Sep 97	303	1	0	1	0					0.87
SWM	57	15 Sep 97	671	0								0.00
SWM	58	18 Sep 97	198	0								0.00
SWM	60	18 Sep 97	92	0								0.00
SWM	62	17 Sep 97	119	0								0.00
SWM	63	17 Sep 97	75	0								0.00
SWM	64	17 Sep 97	250	1								3.17
SWM	69	23 Sep 97	92	0								0.00
SWM	71	17 Sep 97	153	0								0.00

Table 22 (continued)

Branch[a]	Site	Date	Area (m^2)[b]	Number of eels per sweep in sweep no.							Zippin pop. est.		Eels/ 100 m^{2c}
				0.5[c]	1	2	3	4	5	6	Pop	±90% CI	
SWM	74	10 Sep 97	260	0	0	0	0						0.00
SWM	75	12 Sep 97	474	0									0.00
SWM	76	12 Sep 97	255	0									0.00
SWM	77	11 Sep 97	243	0									0.00
SWM	78	11 Sep 97	222	0									0.00
SWM	79	17 Sep 97	118	0									0.00
SWM	82	27 Aug 97	174	0	0	0	0						0.00
SWM	84	17 Sep 97	241	0	0	0	0						0.00
SWM	86	24 Sep 97	186	0									0.00
SWM	88	24 Sep 97	137	0									0.00
SWM	92	18 Sep 97	183	0									0.00
SWM	95	23 Sep 97	130	0									0.00
SWM	97	11 Sep 97	172	0									0.00
SWM	98	11 Sep 97	142	1									5.58
Sev	103	26 Aug 97	228	0	0	0	1						0.58
Sev	104	27 Aug 97	168	0									0.00
NWM	107	1 Oct 97	361	0									0.00
NWM	109	19 Sep 97	68	0									0.00
SWM	110	12 Sep 97	94	0									0.00
Tom	113	26 Aug 97	194	0									0.00
NWM	115	26 Aug 97	118	0									0.00
SWM	117	15 Sep 97	297	0									0.00
SWM	119	15 Sep 97	285	0									0.00
SWM	125	18 Sep 97	66	0									0.00
SWM	126	23 Sep 97	98	0									0.00
SWM	129	23 Sep 97	150	0									0.00
SWM	131	11 Sep 97	148	0									0.00
NWM	135	25 Aug 97	130	0									0.00
NWM	145	1 Oct 97	271	0									0.00
NWM	147	29 Aug 97	125	0									0.00
NWM	150	15 Sep 97	126	0									0.00
NWM	153	29 Aug 97	214	0									0.00
NWM	159	25 Aug 97	172	0									0.00
SWM	174	16 Sep 97	107	0									0.00
SWM	178	11 Sep 97	60	0									0.00
SWM	186	29 Aug 97	119	0									0.00
SWM	188	24 Sep 97	138	0									0.00
NWM	190	27 Aug 97	203	0									0.00
Ren	12b	29 Aug 97	244	0									0.00
NWM	15b	27 Aug 97	100	0									0.00
Dun	2b	17 Sep 97	128	0									0.00
SWM	7b	16 Sep 97	115	0									0.00
MWM	20	6 Aug 98	164	0									0.00
MWM	23	10 Aug 98	104	0									0.00
MWM	26	21 Aug 98	435	0									0.00
MWM	30	10 Aug 98	297	0									0.00
MWM	31	6 Aug 98	552	0									0.00
MWM	33	10 Aug 98	371	0									0.00
MWM	34	5 Aug 98	189	0									0.00
MWM	35	5 Aug 98	103	0									0.00
MWM	38	3 Sep 98	199	0	0	0	0						0.00
MWM	39	5 Aug 98	171	0									0.00
MWM	40	7 Aug 98	222	0	1	2	0				3.79		1.70
MWM	43	21 Aug 98	423	1									1.88
MWM	44	21 Aug 98	353	1									2.25
MWM	45	20 Aug 98	374	0									0.00
MWM	46	20 Aug 98	135	0									0.00
SWM	48	17 Aug 98	206	0									0.00
SWM	52	17 Aug 98	205	0									0.00
Ren	54	17 Aug 98	312	1									2.55
SWM	55	19 Aug 98	321	1	1	0	0	0					0.73
SWM	57	18 Aug 98	275	0									0.00
SWM	58	27 Aug 98	175	0									0.00
SWM	60	27 Aug 98	252	0									0.00
SWM	61	24 Aug 98	138	0									0.00
SWM	62	26 Aug 98	155	0									0.00
SWM	65	25 Aug 98	152	0									0.00
SWM	69	25 Aug 98	234	0									0.00
SWM	74	31 Jul 98	252	0	0	0	0						0.00
SWM	77	24 Aug 98	139	0									0.00
SWM	78	24 Aug 98	240	0									0.00
SWM	79	26 Aug 98	146	0									0.00
SWM	82	1 Sep 98	199	0	0	0	0						0.00
SWM	84	2 Sep 98	232	0	0	0	0						0.00
SWM	86	16 Sep 98	199	0									0.00
SWM	88	16 Sep 98	305	0									0.00
SWM	92	27 Aug 98	185	0									0.00
SWM	95	25 Aug 98	175	0									0.00
SWM	97	18 Aug 98	286	0									0.00
SWM	98	18 Aug 98	170	2									9.33
Sev	103	4 Aug 98	335	0	1	0	2	0			7.23		2.16
Sev	104	10 Aug 98	313	0									0.00
NWM	107	20 Aug 98	273	0									0.00
Tom	113	6 Aug 98	268	0									0.00
NWM	115	6 Aug 98	205	0									0.00
SWM	117	17 Aug 98	251	1									3.17
SWM	119	18 Aug 98	274	0									0.00
SWM	120	21 Sep 98	147	0									0.00
SWM	121	21 Sep 98	232	0									0.00
SWM	126	25 Aug 98	123	0									0.00
SWM	129	21 Sep 98	196	0									0.00
SWM	131	18 Aug 98	178	0									0.00
NWM	134	28 Aug 98	265	0									0.00
NWM	135	6 Aug 98	294	0									0.00
NWM	145	20 Aug 98	332	0									0.00
NWM	146	4 Sep 98	163	0									0.00
NWM	147	4 Sep 98	125	0									0.00
NWM	153	5 Aug 98	214	0									0.00
SWM	186	11 Aug 98	131	0									0.00
NWM	190	21 Aug 98	215	0									0.00
NWM	191	3 Sep 98	100	0									0.00
SWM	192	17 Sep 98	135	0									0.00
SWM	193	18 Sep 98	332	0									0.00
SWM	194	18 Sep 98	164	0									0.00
SWM	195	17 Sep 98	239	0									0.00
SWM	196	17 Sep 98	422	0									0.00
SWM	197	17 Sep 98	212	0									0.00
SWM	199	17 Aug 98	217	2									7.33
Ren	12b	17 Aug 98	196	1									4.05
NWM	14b	5 Aug 98	125	0									0.00
Dun	2b	11 Aug 98	208	0									0.00
MWM	20	15 Jun 99	161	0									0.00
MWM	20	15 Jul 99	150	0									0.00
MWM	20	24 Aug 99	131	0									0.00
MWM	20	16 Sep 99	147	0									0.00
MWM	23	29 Aug 99	88	2									18.06
MWM	26	26 Aug 99	316	0									0.00
MWM	30	20 Aug 99	179	0									0.00
MWM	31	20 Aug 99	113	0									0.00
MWM	33	18 Aug 99	175	0									0.00
MWM	34	30 Aug 99	151	1									5.25
MWM	35	18 Aug 99	101	0									0.00
MWM	38	17 Aug 99	204	0	0	0	0	0					0.00
MWM	39	3 Sep 99	122	0									0.00
MWM	40	25 Aug 99	211	0	0	0	0						0.00
MWM	41	3 Sep 99	174	0									0.00
MWM	43	26 Aug 99	244	0									0.00
MWM	44	28 Aug 99	192	0									0.00
MWM	45	25 Jun 99	177	0									0.00
MWM	45	22 Jul 99	177	0									0.00
MWM	45	24 Aug 99	177	1									4.49
MWM	46	28 Aug 99	88	0									0.00
SWM	48	25 Aug 99	104	0									0.00
SWM	52	25 Aug 99	176	0									0.00
Ren	54	16 Jun 99	218	0									0.00
Ren	54	16 Jul 99	218	0									0.00
Ren	54	24 Aug 99	280	0									0.00
Ren	54	15 Sep 99	358	0									0.00
SWM	55	26 Aug 99	165	0	0	0	0						0.00
SWM	57	25 Aug 99	132	0									0.00
SWM	58	31 Aug 99	141	0									0.00
SWM	60	31 Aug 99	127	0									0.00
SWM	61	2 Sep 99	139	0									0.00
SWM	62	2 Sep 99	144	0									0.00
SWM	65	23 Aug 99	166	0									0.00
SWM	69	23 Aug 99	179	0									0.00
SWM	74	24 Aug 99	266	0	0	0	0						0.00
SWM	75	2 Sep 99	220	0									0.00
SWM	77	2 Sep 99	147	0									0.00
SWM	78	2 Sep 99	171	0									0.00
SWM	79	31 Aug 99	105	0									0.00
SWM	82	19 Aug 99	163	0	0	0	0						0.00
SWM	84	23 Aug 99	328	0	0	0	0						0.00
SWM	86	13 Sep 99	208	0									0.00
SWM	88	1 Sep 99	299	0									0.00
SWM	92	7 Sep 99	162	0									0.00
SWM	95	23 Aug 99	60	0									0.00
SWM	97	16 Aug 99	189	1									4.21
SWM	98	16 Aug 99	119	0									0.00
SWM	100	8 Sep 99	132	0									0.00
Sev	103	27 Aug 99	225	1	1	1	0				3.18		1.41
Sev	104	30 Aug 99	167	0									0.00

Table 22 (continued)

Branch[a]	Site	Date	Area (m^2)[b]	Number of eels per sweep in sweep no.						Zippin pop. est.		Eels/ 100 m^{2c}
				0.5[c]	1	2	3	4	5	6	Pop.	±90% CI	
NWM	107	28 Aug 99	273	1									2.91
Tom	113	29 Aug 99	197	0									0.00
NWM	114	8 Sep 99	202	0									0.00
NWM	115	8 Sep 99	144	1									5.52
SWM	117	25 Aug 99	128	0									0.00
SWM	119	16 Jun 99	249	0									0.00
SWM	119	16 Jul 99	249	0									0.00
SWM	119	25 Aug 99	249	0									0.00
SWM	119	15 Sep 99	249	0									0.00
SWM	120	7 Sep 99	202	0									0.00
SWM	121	7 Sep 99	131	0									0.00
SWM	126	23 Aug 99	181	0									0.00
SWM	129	7 Sep 99	142	0									0.00
SWM	131	1 Sep 99	122	1									6.53
NWM	134	1 Sep 99	97	2									16.39
NWM	135	30 Aug 99	127	0									0.00
NWM	145	25 Jun 99	244	0									0.00
NWM	145	22 Jul 99	244	0									0.00
NWM	145	24 Aug 99	244	0									0.00
NWM	146	10 Sep 99	163	0									0.00
NWM	147	10 Sep 99	212	0									0.00
NWM	153	3 Sep 99	130	0									0.00
SWM	186	28 Aug 99	132	0									0.00
NWM	190	9 Sep 99	203	0									0.00
NWM	191	30 Aug 99	133	0									0.00
Ren	12b	28 Aug 99	160	0									0.00
NWM	14b	30 Aug 99	154	0									0.00
NWM	15b	15 Jun 99	501	1									1.59
NWM	15b	15 Jul 99	498	0									0.00
NWM	15b	24 Aug 99	220	1									3.61
NWM	15b	16 Sep 99	406	0									0.00
NWM	16b	9 Sep 99	213	0									0.00
Dun	2b	31 Aug 99	122	0									0.00
MWM	20	15 Aug 00	122	0									0.00
MWM	23	13 Sep 00	61	0									0.00
MWM	26	5 Sep 00	320	0									0.00
MWM	30	30 Aug 00	425	2									3.74
MWM	31	15 Aug 00	133	0									0.00
MWM	33	23 Aug 00	332	0									0.00
MWM	34	22 Aug 00	478	0									0.00
MWM	35	22 Aug 00	240	0									0.00
MWM	38	30 Aug 00	242	0	0	0	0						0.00
MWM	39	12 Sep 00	224	0									0.00
MWM	40	1 Sep 00	193	0	0	3	1						2.74
MWM	41	13 Sep 00	110	0									0.00
MWM	43	31 Aug 00	433	0									0.00
MWM	44	15 Sep 00	586	1									1.36
MWM	45	21 Aug 00	371	1									2.14
MWM	46	7 Sep 00	129	0									0.00
SWM	48	6 Sep 00	238	0									0.00
SWM	52	7 Sep 00	334	0									0.00
Ren	54	6 Sep 00	358	0									0.00
SWM	55	29 Aug 00	305	0									0.00
SWM	57	2 Aug 00	399	0									0.00
SWM	58	10 Aug 00	1,025	0									0.00
SWM	60	9 Aug 00	287	0									0.00
SWM	61	2 Aug 00	434	0									0.00
SWM	62	3 Aug 00	507	0									0.00
SWM	65	1 Aug 00	292	0									0.00
SWM	69	1 Aug 00	300	0									0.00
SWM	74	16 Aug 00	292	0	0	1	0						0.45
SWM	75	4 Aug 00	708	0									0.00
SWM	77	3 Aug 00	433	0									0.00
SWM	78	3 Aug 00	333	0									0.00
SWM	79	17 Aug 00	220	2									7.23
SWM	82	11 Aug 00	189	0	0	0	0						0.00
SWM	84	14 Aug 00	465	0	0	0	0						0.00
SWM	86	11 Sep 00	261	0									0.00
SWM	88	21 Sep 00	255	0									0.00
SWM	91	11 Oct 00	660	0									0.00
SWM	92	9 Aug 00	208	0									0.00
SWM	95	1 Aug 00	260	0									0.00
SWM	98	8 Sep 00	129	1									6.17
Sev	103	31 Aug 00	216	2	1	0	0						1.83
Sev	104	15 Aug 00	179	0									0.00
NWM	107	21 Aug 00	413	0									0.00
Tom	113	5 Sep 00	169	0									0.00
NWM	115	23 Aug 00	273	0									0.00
SWM	117	2 Aug 00	490	0									0.00
SWM	119	6 Sep 00	343	0									0.00
SWM	120	14 Sep 00	210	0									0.00
SWM	121	14 Sep 00	191	0									0.00
SWM	129	14 Sep 00	190	0									0.00
SWM	131	8 Sep 00	154	0									0.00
NWM	134	4 Oct 00	371	0									0.00
NWM	135	8 Sep 00	157	0									0.00
NWM	145	7 Sep 00	244	0									0.00
NWM	146	12 Sep 00	183	0									0.00
NWM	147	12 Sep 00	283	0									0.00
NWM	153	12 Sep 00	198	0									0.00
SWM	186	7 Sep 00	153	0									0.00
NWM	190	15 Sep 00	641	0									0.00
NWM	191	8 Sep 00	142	0									0.00
SWM	195	13 Oct 00	1,527	0									0.00
SWM	200	2 Aug 00	193	2									8.26
NWM	201	5 Sep 00	138	0									0.00
SWM	202	4 Aug 00	589	0									0.00
SWM	203	29 Aug 00	417	1									1.91
SWM	204	13 Oct 00	312	0									0.00
Ren	12b	6 Sep 00	212	0									0.00
NWM	15b	22 Aug 00	767	1									1.04
NWM	16b	15 Sep 00	578	0									0.00
Dun	2b	3 Aug 00	142	0									0.00
MWM	20	14 Aug 01	225	0									0.00
MWM	23	14 Sep 01	144	2									11.02
MWM	26	7 Sep 01	266	2									5.97
MWM	30	7 Sep 01	197	1									4.03
MWM	31	16 Aug 01	390	0									0.00
MWM	33	15 Aug 01	267	0									0.00
MWM	34	13 Aug 01	164	0									0.00
MWM	35	13 Aug 01	100	0									0.00
MWM	38	24 Aug 01	242	0	0	0	0						0.00
MWM	39	14 Sep 01	156	0									0.00
MWM	40	13 Aug 01	184	0	2	1	1				5.85		3.18
MWM	43	28 Aug 01	540	1									1.47
MWM	44	28 Aug 01	401	0									0.00
MWM	45	12 Sep 01	135	0									0.00
MWM	46	17 Aug 01	117	0	0	0	0						0.00
SWM	48	5 Sep 01	265	0									0.00
SWM	52	13 Sep 01	459	0									0.00
Ren	54	5 Sep 01	371	0									0.00
SWM	55	4 Sep 01	255	0									0.00
SWM	57	5 Sep 01	270	0									0.00
SWM	58	4 Sep 01	283	0									0.00
SWM	60	31 Aug 01	331	0									0.00
SWM	61	10 Sep 01	542	0									0.00
SWM	62	31 Aug 01	297	0									0.00
SWM	65	29 Aug 01	220	0									0.00
SWM	69	29 Aug 01	264	0									0.00
SWM	74	23 Aug 01	272	0	0	0	0						0.00
SWM	75	10 Sep 01	341	0									0.00
SWM	77	10 Sep 01	339	1									2.34
SWM	78	10 Sep 01	471	0									0.00
SWM	79	15 Aug 01	220	0	0	0	0						0.00
SWM	82	14 Aug 01	198	0	0	0	0						0.00
SWM	84	16 Aug 01	280	1	1	0	0						0.94
SWM	86	30 Aug 01	154	0									0.00
SWM	88	30 Aug 01	160	0									0.00
SWM	92	23 Aug 01	234	0	0	0	0						0.00
SWM	95	29 Aug 01	193	0									0.00
SWM	97	11 Sep 01	186	1									4.27
SWM	98	11 Sep 01	174	2									9.11
SWM	100	28 Aug 01	209	0									0.00
Sev	103	20 Aug 01	214	0	0	0	0						0.00
Sev	104	16 Aug 01	143	0									0.00
NWM	107	12 Sep 01	283	1									2.81
Tom	113	17 Aug 01	255	0									0.00
NWM	114	17 Aug 01	593	0									0.00
NWM	115	14 Aug 01	423	0									0.00
SWM	117	5 Sep 01	271	0									0.00
SWM	119	13 Sep 01	308	0									0.00
SWM	120	21 Aug 01	306	0									0.00
SWM	121	30 Aug 01	266	0									0.00
SWM	129	21 Aug 01	130	0									0.00
SWM	131	11 Sep 01	182	1									4.37
NWM	134	11 Sep 01	240	2									6.62
NWM	135	11 Sep 01	179	0									0.00
NWM	145	12 Sep 01	282	0									0.00
NWM	146	22 Aug 01	194	0									0.00
NWM	147	22 Aug 01	194	0									0.00
NWM	153	14 Sep 01	177	0									0.00
SWM	186	30 Aug 01	199	0									0.00

Table 22 (continued)

Branch[a]	Site	Date	Area (m^2)[b]	Number of eels per sweep in sweep no.						Zippin pop. est.		Eels/ 100 m^2
				0.5[c]	1	2	3	4	5	6	Pop.	±90% CI	
NWM	190	14 Sep 01	431	0									0.00
NWM	191	14 Sep 01	156	0									0.00
SWM	195	30 Aug 01	635	0									0.00
SWM	200	28 Aug 01	193	2									8.23
NWM	201	7 Sep 01	138	0									0.00
SWM	206	29 Aug 01	183	0									0.00
NWM	207	22 Aug 01	251	8									25.29
Ren	12b	30 Aug 01	204	0									0.00
NWM	15b	7 Sep 01	406	1									1.96
NWM	16b	7 Sep 01	276	0									0.00
Dun	2b	4 Sep 01	240	0									0.00
Main	8b	16 Aug 01	625	0									0.00
Dun	2	17 Sep 02	276	0									0.00
Cains	8	18 Sep 02	486	0									0.00
Main	9	29 Aug 02	167	0									0.00
Ren	12	23 Sep 02	214	0									0.00
NWM	15	10 Sep 02	279	0									0.00
NWM	16	5 Sep 02	374	0									0.00
MWM	20	26 Aug 02	163	0									0.00
MWM	23	6 Sep 02	144	0									0.00
MWM	26	3 Sep 02	266	0									0.00
MWM	30	3 Sep 02	197	0									0.00
MWM	31	5 Sep 02	331	0									0.00
MWM	33	5 Sep 02	209	0									0.00
MWM	35	5 Sep 02	100	0									0.00
MWM	38	27 Aug 02	210	0	0	0	0						0.00
MWM	39	4 Sep 02	156	0									0.00
MWM	40	28 Aug 02	162	0	0	0	0						0.00
MWM	43	4 Sep 02	394	0									0.00
MWM	44	4 Sep 02	405	1									1.96
MWM	45	6 Sep 02	135	0									0.00
MWM	46	30 Aug 02	229	0	0	0	0						0.00
SWM	48	12 Sep 02	169	0									0.00
SWM	52	23 Sep 02	459	0									0.00
Ren	54	23 Sep 02	304	1									2.61
SWM	55	17 Sep 02	340	0									0.00
SWM	57	20 Sep 02	311	0									0.00
SWM	58	11 Sep 02	203	0									0.00
SWM	60	11 Sep 02	331	0									0.00
SWM	61	10 Sep 02	461	0									0.00
SWM	62	11 Sep 02	297	2									5.34
SWM	65	12 Sep 02	220	0									0.00
SWM	69	18 Sep 02	264	0									0.00
SWM	74	29 Aug 02	233	1	0	0	0						0.57
SWM	75	20 Sep 02	255	0									0.00
SWM	77	13 Sep 02	290	0									0.00
SWM	78	13 Sep 02	170	0									0.00
SWM	79	19 Sep 02	181	0	0	0	0						0.00
SWM	82	10 Sep 02	215	0	0	0	0						0.00
SWM	84	26 Sep 02	215	0	0	0	0						0.00
SWM	85	27 Sep 02	154	0									0.00
SWM	88	27 Sep 02	160	0									0.00
SWM	92	11 Sep 02	188	0									0.00
SWM	95	12 Sep 02	193	0									0.00
SWM	98	9 Sep 02	60	0									0.00
SWM	100	4 Sep 02	270	0									0.00
Sev	103	28 Aug 02	212	1	1	0	0						1.25
Sev	104	27 Aug 02	275	0									0.00
NWM	107	6 Sep 02	283	0									0.00
Tom	113	3 Sep 02	157	0									0.00
NWM	114	3 Sep 02	197	0									0.00
NWM	115	26 Aug 02	190	0									0.00
SWM	117	13 Sep 02	305	0									0.00
SWM	119	20 Sep 02	308	0									0.00
SWM	120	25 Sep 02	190	0									0.00
SWM	121	25 Sep 02	152	0									0.00
SWM	129	25 Sep 02	194	0									0.00
SWM	131	9 Sep 02	81	0									0.00
NWM	134	6 Sep 02	397	0									0.00
NWM	135	6 Sep 02	404	0									0.00
NWM	145	6 Sep 02	179	0									0.00
NWM	146	9 Sep 02	187	0									0.00
NWM	147	9 Sep 02	233	1									3.41
NWM	153	4 Sep 02	177	0									0.00
SWM	186	23 Sep 02	250	0									0.00
NWM	190	5 Sep 02	431	0									0.00
NWM	191	26 Aug 02	156	0									0.00
SWM	195	18 Sep 02	635	0									0.00
SWM	200	29 Aug 02	178	1									4.46
NWM	201	10 Sep 02	328	0									0.00
SWM	206	12 Sep 02	177	0									0.00
NWM	207	9 Sep 02	246	5									16.14
Sev	208	24 Sep 02	110	0									0.00
Ren	209	1 Oct 02	136	0									0.00
Dun	2	11 Sep 03	208	0									0.00
Cains	8	19 Sep 03	157	0									0.00
Ren	12	15 Sep 03	220	0									0.00
NWM	15	26 Aug 03	413	2									3.85
NWM	16	2 Sep 03	228	0									0.00
NWM	20	25 Aug 03	273	0									0.00
NWM	23	9 Sep 03	82	0									0.00
NWM	26	29 Aug 03	287	0									0.00
NWM	30	25 Aug 03	338	0									0.00
NWM	31	26 Aug 03	208	0									0.00
NWM	33	29 Aug 03	336	0									0.00
NWM	34	2 Sep 03	164	0									0.00
NWM	35	2 Sep 03	168	0									0.00
NWM	38	2 Sep 03	210	0									0.00
NWM	39	8 Sep 03	135	0									0.00
NWM	40	3 Sep 03	173	0	2	0	0						1.53
NWM	43	3 Sep 03	205	1									3.88
NWM	44	23 Sep 03	350	0									0.00
NWM	45	4 Sep 03	413	2									3.84
NWM	46	4 Sep 03	294	0	0	0	0						0.00
SWM	48	15 Sep 03	229	0									0.00
SWM	52	15 Sep 03	472	0									0.00
Ren	54	15 Sep 03	205	0									0.00
SWM	55	16 Sep 03	255	0									0.00
SWM	57	16 Sep 03	270	0									0.00
SWM	58	22 Sep 03	275	2									5.77
SWM	60	11 Sep 03	132	0									0.00
SWM	61	10 Sep 03	200	0									0.00
SWM	62	19 Sep 03	389	0									0.00
SWM	65	25 Sep 03	174	0									0.00
SWM	69	25 Sep 03	234	1									3.39
SWM	74	17 Sep 03	251	0	0	0	0						0.00
SWM	75	19 Sep 03	194	0									0.00
SWM	77	16 Sep 03	158	0									0.00
SWM	78	16 Sep 03	297	0									0.00
SWM	79	18 Sep 03	212	0	0	0	0	0					0.00
SWM	82	10 Sep 03	204	0	0	0	0						0.00
SWM	84	12 Sep 03	275	0	0	0	0						0.00
SWM	86	22 Sep 03	113	0									0.00
SWM	88	22 Sep 03	142	0									0.00
SWM	92	11 Sep 03	144	0									0.00
SWM	95	25 Sep 03	215	0									0.00
SWM	98	26 Sep 03	95	1									8.35
Sev	103	9 Sep 03	248	0	1	0	0	0					0.47
Sev	104	26 Aug 03	232	0									0.00
Sev	111	8 Sep 03	136	0									0.00
Tom	113	26 Aug 03	359	1									2.21
NWM	115	25 Aug 03	122	0									0.00
SWM	117	22 Sep 03	381	0									0.00
SWM	119	19 Sep 03	156	0									0.00
SWM	120	24 Sep 03	190	0									0.00
SWM	121	24 Sep 03	124	0									0.00
SWM	129	24 Sep 03	168	0									0.00
SWM	131	26 Sep 03	183	0									0.00
NWM	134	28 Aug 03	222	0									0.00
NWM	135	28 Aug 03	436	0									0.00
NWM	145	23 Sep 03	179	0									0.00
NWM	147	8 Sep 03	143	0									0.00
NWM	153	8 Sep 03	154	0									0.00
SWM	186	15 Sep 03	128	0									0.00
NWM	190	29 Aug 03	86	0									0.00
NWM	191	28 Aug 03	148	0									0.00
SWM	200	17 Sep 03	193	0									0.00
Sev	208	5 Sep 03	192	0	0	0	0						0.00
Dun	2	15 Sep 04	208	0									0.00
Cains	8	23 Sep 04	157	0									0.00
Cains	9	29 Sep 04	167	1									4.77
Ren	12	17 Sep 04	220	0									0.00
NW	15	17 Aug 04	413	0									0.00
NW	16	17 Aug 04	302	0									0.00
NW	20	25 Aug 04	273	0									0.00
NW	23	18 Aug 04	82	4									98.76
NW	26	17 Aug 04	287	0									0.00
NW	30	17 Aug 04	206	0									0.00
NW	31	25 Aug 04	208	0									0.00
NW	33	25 Aug 04	336	0									0.00
NW	35	25 Aug 04	168	0									0.00
Sev	38	1 Sep 04	210	0									0.00

Table 22 (continued)

Branch[a]	Site	Date	Area (m^2)[b]	Number of eels per sweep in sweep no.							Zippin pop. est.		Eels/ 100 m^2[c]
				0.5[c]	1	2	3	4	5	6	Pop.	±90% CI	
Sev	39	26 Aug 04	135	0									0.00
NW	40	27 Aug 04	200	0	0	0	1	0					0.58
LSW	43	23 Aug 04	226	0									0.00
LSW	44	24 Aug 04	273	1									2.91
LSW	45	7 Sep 04	413	0									0.00
LSW	46	23 Aug 04	272	0	0	0	0						0.00
Ren	48	17 Sep 04	229	0									0.00
Ren	54	17 Sep 04	205	0									0.00
Dun	55	15 Sep 04	255	0									0.00
Dun	57	20 Sep 04	270	0									0.00
SW	58	21 Sep 04	275	0									0.00
SW	60	15 Sep 04	132	0									0.00
SW	61	13 Sep 04	200	0									0.00
SW	62	14 Sep 04	389	0									0.00
SW	65	16 Sep 04	174	0									0.00
SW	69	16 Sep 04	234	0									0.00
Cains	74	27 Sep 04	249	0	0	0	0						0.00
Cains	75	13 Sep 04	194	0									0.00
Cains	77	13 Sep 04	158	0									0.00
Cains	78	13 Sep 04	297	0									0.00
SW	79	22 Sep 04	200	0	0	0	0						0.00
SW	82	14 Sep 04	246	0	0	0	0						0.00
SW	84	23 Sep 04	217	1	0	1	0						1.22
Tax	86	24 Sep 04	113	0									0.00
Tax	88	24 Sep 04	142	0									0.00
SW	92	15 Sep 04	144	0									0.00
SW	95	16 Sep 04	215	0									0.00
Barn	98	29 Sep 04	95	0									0.00
LSW	100	24 Aug 04	270	0									0.00
Sev	103	8 Sep 04	226	2	2	0	0						2.35
Sev	104	17 Aug 04	142	0									0.00
LSW	107	7 Sep 04	283	0									0.00
NW	113	18 Aug 04	359	0									0.00
NW	114	18 Aug 04	197	0									0.00
NW	115	18 Aug 04	122	0									0.00
Ren	116	17 Sep 04	195	3									12.20
Dun	117	20 Sep 04	381	0									0.00
Bart	119	20 Sep 04	156	0									0.00
SW	120	21 Sep 04	190	0									0.00
SW	121	21 Sep 04	124	0									0.00
SW	129	21 Sep 04	168	0									0.00
Barn	131	29 Sep 04	183	0									0.00
NW	134	24 Aug 04	222	1									3.58
NW	135	24 Aug 04	436	0									0.00
NW	145	7 Sep 04	179	0									0.00
NW	147	1 Sep 04	143	1									5.56
NW	153	1 Sep 04	154	0									0.00
NW	186	7 Sep 04	128	0									0.00
Sev	190	1 Sep 04	86	0									0.00
NW	191	8 Sep 04	148	0									0.00
Tax	195	24 Sep 04	653	0									0.00
SW	200	20 Sep 04	193	0									0.00
NW	201	25 Aug 04	201	0									0.00
SW	206	16 Sep 04	180	0									0.00
Sev	208	26 Aug 04	174	0	0	0	0						0.00
Dun	2	8 Sep 05	208	0									0.00
Cains	8	15 Sep 05	157	0									0.00
Cains	9	22 Sep 05	167	0									0.00
Ren	12	29 Aug 05	220	1									3.60
NW	15	31 Aug 05	413	1									1.92
NW	16	7 Sep 05	302	0									0.00
NW	20	31 Aug 05	273	0									0.00
NW	23	7 Sep 05	82	0									0.00
NW	26	7 Sep 05	287	0									0.00
NW	30	31 Aug 05	206	0									0.00
NW	31	6 Sep 05	208	0									0.00
NW	33	6 Sep 05	336	0									0.00
NW	35	6 Sep 05	168	0									0.00
Sev	38	30 Aug 05	210	0									0.00
Sev	39	30 Aug 05	135	0									0.00
NW	40	26 Aug 05	177	0	1	0	0						0.75
LSW	43	24 Aug 05	226	1									3.52
LSW	44	25 Aug 05	273	2									5.82
LSW	45	24 Aug 05	413	3									5.77
LSW	46	25 Aug 05	221	0	0	0	0						0.00
Ren	48	29 Aug 05	229	0									0.00
Ren	54	29 Aug 05	205	1									3.88
Dun	55	8 Sep 05	255	2									6.24
Dun	57	8 Sep 05	270	0									0.00
SW	58	8 Sep 05	275	0									0.00
SW	60	21 Sep 05	132	0									0.00
SW	61	22 Sep 05	200	0									0.00
SW	62	15 Sep 05	389	0									0.00
SW	65	12 Sep 05	174	0									0.00
SW	69	12 Sep 05	234	0									0.00
Cains	74	26 Sep 05	249	0									0.00
Cains	75	15 Sep 05	194	0									0.00
Cains	77	15 Sep 05	158	0									0.00
Cains	78	15 Sep 05	297	1									2.67
SW	79	26 Sep 05	200	0									0.00
SW	82	16 Sep 05	185	0	0	0	0						0.00
SW	84	26 Sep 05	217	1									3.65
Tax	86	20 Sep 05	113	0									0.00
Tax	88	20 Sep 05	142	0									0.00
SW	92	21 Sep 05	144	0									0.00
SW	95	12 Sep 05	215	0									0.00
Barn	98	13 Sep 05	95	0									0.00
Sev	103	9 Sep 05	226	0									0.00
Sev	104	30 Aug 05	142	0									0.00
LSW	107	24 Aug 05	283	1									2.81
NW	113	31 Aug 05	359	0									0.00
NW	114	7 Sep 05	197	0									0.00
NW	115	31 Aug 05	122	1									6.52
Ren	116	29 Aug 05	195	3									12.20
Dun	117	8 Sep 05	381	0									0.00
Bart	119	8 Sep 05	156	0									0.00
SW	120	19 Sep 05	190	0									0.00
SW	121	19 Sep 05	124	0									0.00
SW	129	19 Sep 05	168	0									0.00
Barn	131	13 Sep 05	183	0									0.00
NW	134	26 Aug 05	222	1									3.58
NW	135	9 Sep 05	436	0									0.00
LSW	145	24 Aug 05	179	2									8.87
LSW	147	9 Sep 05	143	0									0.00
Sev	153	30 Aug 05	154	0									0.00
Dun	186	29 Aug 05	128	0									0.00
Sev	190	7 Sep 05	86	0									0.00
NW	191	31 Aug 05	148	0									0.00
Tax	195	20 Sep 05	653	0									0.00
SW	200	22 Sep 05	193	0									0.00
NW	201	6 Sep 05	201	0									0.00
SW	206	12 Sep 05	180	0									0.00
Sev	208	30 Aug 05	174	0									0.00
NW	20	5 Sep 06	273	0									0.00
NW	23	31 Aug 06	82	2									19.38
NW	26	8 Sep 06	287	1									2.77
NW	30	5 Sep 06	206	0									0.00
NW	31	30 Aug 06	208	1									3.82
NW	33	29 Aug 06	336	0									0.00
NWM	34	29 Aug 06	164	0									0.00
NW	35	29 Aug 06	168	0									0.00
Sev	38	30 Aug 06	210	0									0.00
Sev	39	6 Sep 06	135	0									0.00
NW	40	31 Aug 06	245	0	0	0	0						0.00
LSW	43	7 Sep 06	226	1									3.52
LSW	44	7 Sep 06	273	0									0.00
LSW	45	7 Sep 06	413	0									0.00
LSW	46	1 Sep 06	234	0	0	0	0						0.00
Ren	48	11 Sep 06	229	0									0.00
Ren	54	11 Sep 06	205	0									0.00
Dun	55	22 Sep 06	255	0									0.00
Dun	57	22 Sep 06	270	0									0.00
SW	58	20 Sep 06	275	0									0.00
SW	60	18 Sep 06	132	0									0.00
SW	61	25 Sep 06	200	0									0.00
SW	62	12 Sep 06	389	0									0.00
SW	69	14 Sep 06	234	0									0.00
Cains	74	9 Aug 06	203		1	0	0	0					0.58
Cains	74	19 Sep 06	200	0	0	0	0	0	0				0.00
Cains	75	25 Sep 06	194	0									0.00
Cains	77	10 Aug 06	234		1	0	0	0					0.50
Cains	77	26 Sep 06	279	0	0	0	0						0.00
Cains	78	25 Sep 06	297	0									0.00
SW	79	12 Sep 06	190	0	0	0	0						0.00
SW	82	21 Sep 06	185	0									0.00
SW	83	21 Sep 06	176	0									0.00
SW	84	13 Sep 06	212	0	1	0	0						0.62
Tax	86	18 Sep 06	113	0									0.00
Tax	88	20 Sep 06	142	0									0.00
SW	92	18 Sep 06	144	0									0.00
SW	95	14 Sep 06	215	0									0.00
Barn	98	15 Sep 06	95	0									0.00

Table 22 (continued)

Branch[a]	Site	Date	Area (m^2)[b]	Number of eels per sweep in sweep no.							Zippin pop. est.		Eels/ 100 m^{2c}
				0.5[c]	1	2	3	4	5	6	Pop.	±90% CI	
Sev	103	6 Sep 06	226	0									0.00
Sev	104	30 Aug 06	142	0									0.00
LSW	107	7 Sep 06	283	1									2.81
NW	113	5 Sep 06	359	0									0.00
NW	114	5 Sep 06	197	0									0.00
NW	115	30 Aug 06	122	0									0.00
Ren	116	11 Sep 06	195	0									0.00
Dun	117	22 Sep 06	381	0									0.00
Bart	119	15 Sep 06	156	0									0.00
SW	120	18 Sep 06	190	0									0.00
SW	121	18 Sep 06	124	0									0.00
SW	127	14 Sep 06	200	0									0.00
SW	129	18 Sep 06	168	0									0.00
Barn	131	15 Sep 06	183	0									0.00
NW	134	8 Sep 06	222	0									0.00
NW	135	8 Sep 06	436	0									0.00
LSW	145	7 Sep 06	179	1									4.43
LSW	147	6 Sep 06	143	0									0.00
Sev	153	6 Sep 06	154	0									0.00
Dun	186	11 Sep 06	128	0									0.00
Sev	190	5 Sep 06	86	0									0.00
NW	191	8 Sep 06	148	0									0.00
SW	200	25 Sep 06	193	1									4.12
NW	201	29 Aug 06	201	0									0.00
Cains	202	11 Aug 06	233		0	1	0	0			1.22		0.53
Cains	202	27 Sep 06	229	0	0	0	0						0.00
SW	206	14 Sep 06	180	0									0.00
Sev	208	6 Sep 06	174	0									0.00

[a]Barn=Barnaby, Bart=Bartholomew, Dun=Dungarvon, LSW=Little Southwest, NW=Northwest, Ren=Renous, Sev=Sevogle, SW=Southwest, Tax=Taxis, Tom=Tomogonops

[b]Where areas measurements are unavailable for a given year, the area is taken from measurements in the closest year surveyed.

[c]Sweep 0.5 is a sweep without barrier nets that is conducted alone, or conducted prior to regular Zippin sweeps.

[d]Calculated from Zippin estimates where available. Otherwise calculated by applying conversion factors from Miramichi data (Table 18) to counts per sweep.

Table 23. Densities of eels estimated from electrofishing surveys in southeastern New Brunswick rivers, 1996-2005.

River[a]	Site	Date	Area (m^2)	Number of eels per sweep in sweep no.				Zippin pop. est.	Eels/ 100 m^2[c]
				0.5[b]	1	2	3		
Kouch	1	11 Aug 99	293	1					3.79
Kouch	2	11 Aug 99	394	0					0.00
Kouch	2	31 Jul 00	462	0					0.00
Kouch	1	1 Aug 00	423	0					0.00
Kouch	3	1 Aug 00	834	1					1.33
Kouch	4	1 Aug 00	427	0					0.00
Kouch	5	2 Aug 00	360	0					0.00
Kouch	1	22 Aug 01	594	0					0.00
Kouch	2	22 Aug 01	515	0					0.00
Kouch	3	22 Aug 01	589	0					0.00
Kouch	1	28 Aug 02	292	0					0.00
Kouch	2	28 Aug 02	309	0					0.00
Kouch	3	28 Aug 02	450	1					2.47
Kouch	K1	14 Sep 05	292	0					0.00
Kouch	K2	14 Sep 05	309	0					0.00
Kouch	K3	14 Sep 05	450	1					2.47
Kcis	1	2 Aug 00	588	0					0.00
Kcis	2	9 Aug 00	367	0					0.00
Kcis	1	23 Aug 01	552	0					0.00
Kcis	3	23 Aug 01	555	0					0.00
Kcis	2	24 Aug 01	275	0					0.00
Kcis	1	27 Aug 02	662	1					1.68
Kcis	2	27 Aug 02	439	0					0.00
Kcis	3	27 Aug 02	427	0					0.00
Kcis	KS1	13 Sep 05	662	0					0.00
Kcis	KS2	13 Sep 05	439	0					0.00
Kcis	KS3	13 Sep 05	427	0					0.00
Rich	B1	18 Aug 97	369	0					0.00
Rich	R1	18 Aug 97	499	2					4.46
Rich	C2e	19 Aug 97	335	0					0.00
Rich	R2	19 Aug 97	280	0					0.00
Rich	C1	20 Aug 97	389	0					0.00
Rich	C2	20 Aug 97	180	0					0.00
Rich	N7	21 Aug 97	182	0					0.00
Rich	N9	21 Aug 97	179	0					0.00
Rich	R1	19 Aug 98	439	2					5.07
Rich	R2	19 Aug 98	345	1					3.23
Rich	C2	20 Aug 98	426	0					0.00
Rich	C5	20 Aug 98	246	0					0.00
Rich	R1	9 Aug 99	506	1					2.20
Rich	R2	9 Aug 99	390	0					0.00
Rich	C2	12 Aug 99	454	0					0.00
Rich	C3	12 Aug 99	448	0					0.00
Rich	R1	9 Aug 00	570	1					1.95
Rich	R2	9 Aug 00	469	1					2.37
Rich	C2	23 Aug 00	583	0					0.00
Rich	C3	23 Aug 00	409	0					0.00
Rich	C3	13 Aug 01	401	2					5.55
Rich	C5	14 Aug 01	187	1					5.93
Rich	R1	23 Aug 01	520	1					2.14
Rich	R2	24 Aug 01	312	0					0.00
Rich	C2	14 Sep 01	344	0					0.00
Rich	C2	22 Aug 02	521	1					2.14
Rich	C3	22 Aug 02	330	0					0.00
Rich	C5	23 Aug 02	268	1					4.15
Rich	R1	23 Aug 02	359	2					6.19
Rich	R2	23 Aug 02	351	0					0.00
Rich	R1	14 Sep 05	359	2					6.19
Rich	R2	14 Sep 05	351	0					0.00
Rich	R-C2	5 Oct 05	521	0					0.00
Rich	R-C3	5 Oct 05	330	0					0.00
Rich	R-C5	5 Oct 05	268	0					0.00
Buc	1	12 Aug 96	576	2	1	0	1		0.90
Buc	2	13 Aug 96	326	0	0	1	0		0.40
Buc	3	14 Aug 96	327	0	0	0	0		0.00
Buc	4	15 Aug 96	294	0					0.00
Buc	5	15 Aug 96	135	0					0.00
Buc	6	16 Aug 96	440	0	0	0	0		0.00
Buc	7	19 Aug 96	306	0					0.00
Buc	8	19 Aug 96	216	1					5.14
Buc	9	20 Aug 96	123	0					0.00
Buc	10	20 Aug 96	300	0					0.00
Buc	11	21 Aug 96	392	0					0.00
Buc	12	21 Aug 96	183	0					0.00
Buc	5	5 Aug 97	135	0					0.00
Buc	12	5 Aug 97	183	0					0.00
Buc	3	6 Aug 97	299	0	0	0	0		0.00
Buc	4	7 Aug 97	387	0					0.00
Buc	6	7 Aug 97	445	0					0.00
Buc	2	8 Aug 97	318	0					0.00
Buc	11	8 Aug 97	458	0					0.00
Buc	1	11 Aug 97	260	0	0	0	0		0.00
Buc	7	12 Aug 97	469	0					0.00
Buc	8	12 Aug 97	251	0					0.00
Buc	7	5 Aug 98	378	0					0.00
Buc	8	5 Aug 98	271	1					4.10
Buc	1	7 Aug 98	320	0	1	2	0	3.79	1.19
Buc	11	10 Aug 98	308	0					0.00
Buc	2	11 Aug 98	163	0	2	1	1	5.85	3.58
Buc	5	12 Aug 98	147	0					0.00
Buc	12	12 Aug 98	231	0					0.00
Buc	3	13 Aug 98	219	0	0	0	0		0.00
Buc	4	14 Aug 98	397	0					0.00
Buc	6	14 Aug 98	405	0					0.00
Buc	7	3 Aug 99	671	0					0.00
Buc	8	3 Aug 99	297	1					3.75
Buc	4	4 Aug 99	416	0					0.00
Buc	5	4 Aug 99	224	0					0.00
Buc	12	4 Aug 99	225	0					0.00
Buc	1	5 Aug 99	399	0	0	0	0		0.00
Buc	6	6 Aug 99	437	0					0.00
Buc	11	6 Aug 99	457	1					2.44
Buc	2	9 Aug 99	262	0					0.00
Buc	3	10 Aug 99	362	0	0	0	0		0.00
Buc	7	11 Aug 00	469	2					4.74
Buc	8	11 Aug 00	381	0					0.00
Buc	11	11 Aug 00	340	1					3.27
Buc	3	14 Aug 00	317	0	0	0	0		0.00
Buc	4	16 Aug 00	418	1					2.66
Buc	5	16 Aug 00	292	0					0.00
Buc	12	16 Aug 00	220	0					0.00
Buc	6	17 Aug 00	445	0					0.00
Buc	1	18 Aug 00	396	1	1	0	0		0.65
Buc	2	22 Aug 00	242	0					0.00
Buc	7	6 Sep 01	521	1					2.13
Buc	8	6 Sep 01	309	0					0.00
Buc	11	6 Sep 01	364	0					0.00
Buc	1	12 Sep 01	347	0					0.00
Buc	2	12 Sep 01	262	0					0.00
Buc	3	12 Sep 01	202	0					0.00
Buc	6	12 Sep 01	261	0					0.00
Buc	4	13 Sep 01	245	0					0.00
Buc	5	13 Sep 01	213	0					0.00
Buc	3	20 Aug 02	303	0					0.00
Buc	7	20 Aug 02	250	1					4.45
Buc	8	20 Aug 02	222	0					0.00
Buc	11	20 Aug 02	391	0					0.00
Buc	1	21 Aug 02	258	0					0.00
Buc	2	21 Aug 02	306	1					3.63
Buc	6	21 Aug 02	206	0					0.00
Buc	4	22 Aug 02	285	0					0.00
Buc	B1	6 Oct 05	258	1					4.31
Buc	B2	6 Oct 05	306	0					0.00
Buc	B3	6 Oct 05	303	0					0.00
Buc	B4	6 Oct 05	285	0					0.00
Buc	B8	6 Oct 05	222	0					0.00
Buc	B1B	7 Oct 05	258	1					4.31
Buc	B6	7 Oct 05	206	0					0.00
Buc	B7	7 Oct 05	250	0					0.00
Coc	1	13 Aug 99	544	1					2.04
Coc	2	13 Aug 99	400	2					5.57
Coc	1	22 Aug 00	435	0					0.00
Coc	2	22 Aug 00	221	1					5.04
Coc	1	7 Sep 01	204	0					0.00
Coc	2	7 Sep 01	297	0					0.00
Coc	3	7 Sep 01	241	0					0.00
Coc	1	26 Aug 02	244	0					0.00
Coc	2	26 Aug 02	304	1					3.66
Coc	3	26 Aug 02	227	0					0.00
Coc	C1	5 Oct 05	244	0					0.00
Coc	C2	5 Oct 05	304	0					0.00
Coc	C3	5 Oct 05	227	0					0.00

[a]River codes: Kouch - Kouchibouguac; Kcis - Kouchibouguacis River; Rich - Richibucto River, Buc - Buctouche River; Coc - Cocagne River.

[b]For electrofishing conducted in 2005, areas are from measurements made in previous years.

[c]Sweep 0.5 is a sweep without barrier nets that is conducted alone, or conducted prior to regular Zippin sweeps.

[d]Calculated from Zippin population estimate where available. Where Zippin estimate is not available, calculated by applying conversion factors for southern Gulf data (Table 18) to counts per sweep.

[e]Richibucto sites C1 through C5 are on Coal Branch, which shares a common estuary with the Richibucto River.

Table 24. Densities of eels estimated from electrofishing surveys in Gulf Nova Scotia rivers other than the Margaree, 1977-2002.

River[a]	Site	Date	Area (m^2)	Number of eels per sweep in sweep no.						Zippin pop. est.	Eels/ 100 m^2[c]
				0.5[b]	1	2	3	4	5		
Phil	1	29 Jul 80	212		0	0	0				0.00
Phil	2	31 Jul 80	179		0	0	0				0.00
Phil	3	1 Aug 80	244		10	5	0	0	0	15.02	6.15
Phil	4	8 Aug 80	275		0	0	0				0.00
Phil	1	6 Jun 86	204		1	1	0			2.18	1.07
Phil	1	15 Sep 93	124	0	0	0	0				0.00
Phil	3	15 Sep 93	297	0							0.00
Phil	5	15 Sep 93		0							0.00
Phil	6	15 Sep 93		0							0.00
Phil	2	1993	135	0							0.00
Phil	1	20 Sep 95	176		0	0	0				0.00
Phil	2	20 Sep 95		0[d]							0.00
Phil	3	20 Sep 95			0						0.00
Phil	1	27 Aug 97	176		0	0	0				0.00
Phil	1	20 Aug 98	176		0	0	0				0.00
Phil	2	20 Aug 98		0							0.00
Phil	3	20 Aug 98	596		0[e]	0[e]					0.00
Phil	1	23 Aug 99	176	0							0.00
Phil	99.1	24 Aug 99	227		0	0	0				0.00
Phil	3	25 Aug 99	596	0							0.00
Phil	2	26 Aug 99		0							0.00
Phil	3	23 Aug 00	444	0							0.00
Phil	1	14 Sep 00	166	0							0.00
Phil	99.1	19 Sep 00	144		0	0	0				0.00
Phil	1	30 Aug 01	61	0							0.00
Phil	3	30 Aug 01	69	0							0.00
Phil	1	9 Sep 02	96	0							0.00
Phil	3	9 Sep 02	106	0							0.00
Wal	2	9 Aug 78	408		0	0	0				0.00
Wal	4	9 Aug 78	96		0	0	0	0	0		0.00
Wal	7	9 Aug 78	130		0	0	0				0.00
Wal	3[g]	10 Aug 78	212		0	0	0				0.00
Wal	6[h]	10 Aug 78	86		0	0	0	1	0		1.30
Wal	1	11 Aug 78	280		2	0	0	0			0.83
Wal	1	14 Sep 93		0							0.00
Wal	2	14 Sep 93		0							0.00
Wal	4	14 Sep 93		0							0.00
Wal	5	14 Sep 93		0							0.00
Wal	1	21 Sep 95		0							0.00
Wal	2	21 Sep 95		0							0.00
Wal	3	21 Sep 95		0							0.00
Wal	4	21 Sep 95		0							0.00
Wal	5	21 Sep 95		0							0.00
Wal	3	19 Aug 96		0							0.00
Wal	6	19 Aug 96	235		0[e]	0[e]					0.00
Wal	7	19 Aug 96	118		0[e]	0[e]					0.00
Wal	1	20 Aug 96	80	0							0.00
Wal	4	20 Aug 96	135	0							0.00
Wal	5	20 Aug 96	86	0							0.00
Wal	3	26 Aug 97		0							0.00
Wal	6	26 Aug 97	235		0[e]	0[e]					0.00
Wal	7	26 Aug 97	118		0[e]	0[e]					0.00
Wal	6	21 Aug 98	369		0[e]	0[e]					0.00
Wal	7	21 Aug 98	118		0[e]	0[e]					0.00
Wal	1	25 Aug 98	86	0							0.00
Wal	4	25 Aug 98	92	0							0.00
Wal	3	24 Aug 99		0							0.00
Wal	6	24 Aug 99		0							0.00
Wal	7	24 Aug 99	118	0							0.00
Wal	8	26 Aug 99	307	0							0.00
Wal	1	27 Aug 99		0							0.00
Wal	4	27 Aug 99		0							0.00
Wal	5	27 Aug 99		0							0.00
Wal	5	8 Sep 00	86[f]	1							12.98
Wal	7	8 Sep 00	118	0							0.00
Wal	8	8 Sep 00	307	0							0.00
Wal	7	30 Aug 01	111	0							0.00
Wal	4	31 Aug 01	107	0							0.00
Wal	8	31 Aug 01	77	0							0.00
Wal	4	9 Sep 02	110	0							0.00
Wal	7	9 Sep 02	82	0							0.00
Wal	8	9 Sep 02	95	0							0.00
Wa	1	29 Aug 02	55	0							0.00
Wa	2	29 Aug 02	55	0							0.00
John	1	13 Aug 80	491		1	0	0	0	0		0.23
John	2	14 Aug 80	227		0	0	0	0	0		0.00
John	1	10 Sep 93		0							0.00
John	2	10 Sep 93		0							0.00
John	3	10 Sep 93		0							0.00
John	4	10 Sep 93		0							0.00
John	5	10 Sep 93		0							0.00
John	6	10 Sep 93		0							0.00
John	3	21 Sep 95		0							0.00
John	4	21 Sep 95		0							0.00
John	1	22 Sep 95			0	0	0	0			0.00
John	2	22 Sep 95		0							0.00
John	5	22 Sep 95		0							0.00
John	6	22 Sep 95	96[i]	1							11.59
John	2	28 Aug 98	59	0							0.00
John	4	28 Aug 98	66	0							0.00
John	5	28 Aug 98	151	0							0.00
John	6	28 Aug 98	96	1							11.59
John	5	28 Aug 02	117	0							0.00
John	2	29 Aug 02	51	0							0.00
John	3	29 Aug 02	78	0							0.00
MRPic	95.1	13 Sep 95		0d							0.00
MRPic	95.2	13 Sep 95	644	0d							0.00
MRPic	95.3	13 Sep 95		0d							0.00
MRPic	95.4	1995		0d							0.00
MRPic	5	22 Aug 96	426	0d							0.00
MRPic	3	23 Aug 96	338		0						0.00
MRPic	95.1	23 Aug 96	590		0						0.00
MRPic	95.2	23 Aug 96	445		0						0.00
MRPic	95.4	1996		0							0.00
ERPic	1	4 Aug 78	354		1	1	0	0	1	5.27	1.49
ERPic	2	4 Aug 78	249		0	0	0	0	0		0.00
ERPic	3	4 Aug 78	290		0	0	0	0	0		0.00
ERPic	4	4 Aug 78	150		0	0	0	0	0		0.00
ERPic	4	23 Jul 80	174		0	0	0	0	0		0.00
ERPic	3	24 Jul 80	297		1	0	0	0	0		0.37
ERPic	2	25 Jul 80	244		0	0	0	0	0		0.00
ERPic	1	5 Aug 80	267		1	1	0	0	0	2.01	0.75
ERPic	3	5 Aug 92	193		0	0	0	0			0.00
ERPic	5	5 Aug 92		0							0.00
ERPic	4	6 Aug 92	135		0	0	0	0			0.00
ERPic	6	6 Aug 92		0							0.00
ERPic	7	6 Aug 92		0							0.00
ERPic	4	9 Sep 93		0	0	0	0				0.00
ERPic	5	9 Sep 93		0							0.00
ERPic	8	9 Sep 93		0							0.00
ERPic	4	24 Aug 94	129	0	0	0	0				0.00
ERPic	7	24 Aug 94		0							0.00
ERPic	3	25 Aug 94	160	0	0	0	0				0.00
ERPic	5	25 Aug 94		0							0.00
ERPic	6	25 Aug 94		0							0.00
ERPic	3	14 Sep 95	737		0[e]	0[e]					0.00
ERPic	4	15 Sep 95	253		0	0	0				0.00
ERPic	5	29 Sep 95		0							0.00
ERPic	6	29 Sep 95		0							0.00
ERPic	7	29 Sep 95		0							0.00
ERPic	4	28 Aug 97	253		0	0	0				0.00
ERPic	5	28 Aug 97	102	0							0.00
ERPic	3	29 Sep 97	684		0e	0e					0.00
ERPic	3	26 Aug 98	747		0e	0e					0.00
ERPic	4	26 Aug 98	252		0e	0e					0.00
ERPic	5	27 Aug 98	98	0							0.00
ERPic	7	27 Aug 98	37	0							0.00
ERPic	3	31 Aug 99	684	0							0.00

Table 24 (continued)

River[a]	Site	Date	Area (m^2)	Number of eels per sweep in sweep no.					Zippin pop. est.	Eels/ 100 m^{2c}
				0.5[b]	1	2	3	4	5	
ERPic	4	31 Aug 99	132		0	0	0			0.00
ERPic	6	31 Aug 99	75f	1						14.83
ERPic	5	2 Sep 99		0						0.00
ERPic	7	2 Sep 99		0						0.00
ERPic	3	20 Aug 00	336	0						0.00
ERPic	4	28 Aug 00	132	0						0.00
ERPic	5	28 Aug 00		0						0.00
ERPic	3	28 Aug 01	146	0						0.00
ERPic	5	28 Aug 01	61	0						0.00
ERPic	4	29 Aug 01	64	0						0.00
ERPic	7	29 Aug 01	78	0						0.00
ERPic	4	26 Oct 01		0						0.00
ERPic	5	26 Oct 01		0						0.00
ERPic	4	28 Aug 02	57	0						0.00
ERPic	5	28 Aug 02	55	0						0.00
ERPic	7	28 Aug 02	45	0						0.00
ERPic	3	30 Aug 02	95	0						0.00
Sut	1	15 Aug 80	257		1	1	1			1.44
Sut	2	15 Aug 80	215		3	3	2	1	1	12.65 5.88
Sut	3	18 Aug 80	279		8	2	1	1	0	12.10 4.34
Sut	1	12 Aug 92		0						0.00
Sut	2	12 Aug 92		0						0.00
Sut	3	12 Aug 92		0						0.00
Sut	1	23 Aug 94		0						0.00
Sut	3	24 Aug 94		0						0.00
Sut	1	14 Sep 95	64	0						0.00
Sut	3	14 Sep 95		0						0.00
Sut	1	12 Sep 96		0						0.00
Sut	3	13 Sep 96		0						0.00
Sut	1	1 Sep 99		0						0.00
Sut	3	1 Sep 99		0						0.00
Sut	1	6 Sep 00		0						0.00
Sut	3	19 Sep 00		0						0.00
Fr	4	7 Aug 78	160		1	0	1	0	0	2.13 1.33
Fr	2	8 Aug 78	222		0	0	0	0	0	0.00
Fr	3	8 Aug 78	158		0	0	0	0	0	0.00
Fr	1	15 Aug 78	172		2	2	0	0	0	4.02 2.34
Fr	1	7 Aug 92		0						0.00
Fr	2	7 Aug 92		0						0.00
Fr	3	7 Aug 92	102	0	0	0	0			0.00
Fr	1	23 Aug 94		0						0.00
Fr	2	23 Aug 94		0						0.00
Fr	3	23 Aug 94	120	0	0	0	0			0.00
Fr	3	2 Sep 99		0						0.00
Fr	2	3 Sep 99		0						0.00
Bar	1	21 Aug 80	341		0	0	0			0.00
Bar	2	22 Aug 80	169		1	0	0	0	0	0.66
Bar	3	25 Aug 80	278		2	0	1	0	0	3.04 1.09
Bar	4	26 Aug 80	125		0	0	0	0		0.00
Bar	5	27 Aug 80	152		0	0	0			0.00
Bar	2	12 Aug 92		0						0.00
Bar	1	13 Aug 92		0						0.00
Bar	3	13 Aug 92	134	0						0.00
Bar	4	1992		0						0.00
Bar	3	22 Aug 94	158	0	0	0	0			0.00
Bar	1	26 Aug 94		0						0.00
Bar	4	26 Aug 94		0						0.00
Bar	2	24 Jul 97		0						0.00
Bar	3	24 Jul 97		0						0.00
Bar	2	3 Sep 99		0						0.00
Bar	1	13 Sep 99		0						0.00
Bar	5	6 Sep 00		0						0.00
Bar	1	31 Aug 01	59	0						0.00
Bar	5	31 Aug 01	107	0						0.00
Bar	1	27 Aug 02	66	0						0.00
Bar	3	27 Aug 02	52	0						0.00
Bar	5	27 Aug 02	57	0						0.00
WRAnt	2	16 Aug 78	214		1	2	0	0	0	3.04 1.42
WRAnt	1	17 Aug 78	314		2	0	0	1	0	3.19 1.02

River[a]	Site	Date	Area (m^2)	Number of eels per sweep in sweep no.					Zippin pop. est.	Eels/ 100 m^{2c}
				0.5[b]	1	2	3	4	5	
WRAnt	3	17 Aug 78	189		0	0	0	0	0	0.00
WRAnt	4	18 Aug 78	141		8	6	1	0	1	16.34 11.59
WRAnt	4	4 Jun 86	29		2	2	1	0		5.46 19.02
WRAnt	4.1	4 Jun 86	229		2	2	1	0	4	4.38
WRAnt	4	5 Jun 86	220		2	2	0			4.36 1.98
WRAnt	4.1	22 Jul 86	387		0	0	0	0		0.00
WRAnt	4.2	22 Jul 86			0	0	0	0		0.00
WRAnt	4.1	22 Jul 87			0	0	0	0		0.00
WRAnt	4.2	22 Jul 87			0	0	0	0		0.00
WRAnt	4.2	28 Jul 88	106		0	1	0	0		1.23 1.16
WRAnt	4	2 Aug 91	121		0	0	0	0		0.00
WRAnt	4	30 Jul 92	125	0	0	0	0			0.00
WRAnt	2	4 Aug 92	84	0	0	0	0	0		0.00
WRAnt	2	8 Sep 93		0						0.00
WRAnt	4	8 Sep 93		0	0	0	0			0.00
WRAnt	2	16 Aug 94	120	1	0	0	0	0		0.00
WRAnt	4	17 Aug 94	115	1	0	0	0	0		0.00
WRAnt	2	28 Sep 95	188		1	0	0			0.66
WRAnt	4	28 Sep 95	113		0	0	0			0.00
WRAnt	2	22 Jul 96	139	3						23.96
WRAnt	4	22 Jul 96	198	0						0.00
WRAnt	1	23 Jul 96	432	0						0.00
WRAnt	3	23 Jul 96	269	0						0.00
WRAnt	5	25 Jul 96	185		0	0	0			0.00
WRAnt	2	24 Sep 97	233	0						0.00
WRAnt	4	24 Sep 97	200	0						0.00
WRAnt	1	25 Sep 97	508	0						0.00
WRAnt	3	25 Sep 97	269	0						0.00
WRAnt	2	2 Sep 98	132	1						8.42
WRAnt	4	2 Sep 98	196	1						5.68
WRAnt	5	10 Sep 98	157	0						0.00
WRAnt	3	11 Sep 98	259	0						0.00
WRAnt	2	1 Sep 99	170	0						0.00
WRAnt	4	7 Sep 99	198	0						0.00
WRAnt	1	8 Sep 99	363	0						0.00
WRAnt	5	8 Sep 99	132	0						0.00
WRAnt	3	9 Sep 99	245	1						4.53
WRAnt	2	30 Aug 00	170	0						0.00
WRAnt	4	30 Aug 00	191	0						0.00
WRAnt	1	31 Aug 00	363	0						0.00
WRAnt	3	31 Aug 00	199		0	0	0			0.00
WRAnt	5	31 Aug 00	74	0						0.00
WRAnt	2	27 Aug 01	44	0						0.00
WRAnt	6	27 Aug 01	121	0						0.00
WRAnt	4	28 Aug 01	52	0						0.00
WRAnt	4	26 Aug 02	64	0						0.00
WRAnt	6	26 Aug 02	74	0						0.00
WRAnt	4L	26 Aug 02	33	0						0.00
WRAnt	2	27 Aug 02	38	0						0.00
SRAnt	1	25 Sep 97	79	0						0.00
SRAnt	2	25 Sep 97	120	0						0.00
SRAnt	3	25 Sep 97	123	0						0.00
SRAnt	1	9 Sep 99	127	0						0.00
SRAnt	3	9 Sep 99		0						0.00
SRAnt	2	13 Sep 99		0						0.00
Pom	1	11 Aug 92		0						0.00
Pom	2	11 Aug 92		0						0.00
Pom	3	11 Aug 92		0						0.00
Pom	4	11 Aug 92	149i	1						7.48
Pom	5	11 Aug 92		0						0.00
Pom	6	12 Aug 92	166		0	0	0			0.00
Pom	1	18 Aug 94		0						0.00
Pom	2	18 Aug 94		0						0.00
Pom	3	18 Aug 94		0						0.00
Pom	4	18 Aug 94		0						0.00
Pom	5	18 Aug 94		0						0.00
Pom	6	18 Aug 94	152	0	0	0	0			0.00
Pom	4	23 Jul 97		0						0.00
Pom	1	24 Jul 97	110	0						0.00

Table 24 (continued)

River[a]	Site	Date	Area (m^2)	Number of eels per sweep in sweep no.					Zippin pop. est.	Eels/ 100 m^{2c}
				0.5[b]	1	2	3	4	5	
Pom	5	24 Jul 97	151	0						0.00
Pom	6	24 Jul 97	166		0	0	0			0.00
Pom	1	13 Sep 99		0						0.00
Pom	4	13 Sep 99		0						0.00
Pom	5	13 Sep 99		0						0.00
Aft	1	12 Aug 92		0						0.00
Aft	2	12 Aug 92		0						0.00
Aft	3	12 Aug 92		0						0.00
Aft	1	19 Aug 94		0						0.00
Aft	2	19 Aug 94		0						0.00
Aft	3	19 Aug 94		0						0.00
Aft	1	23 Jul 97		0						0.00
Aft	2	23 Jul 97		0						0.00
Aft	1	14 Sep 99		0						0.00
Aft	2a	14 Sep 99		0						0.00
Trac	1	23 Jul 97	185	0						0.00
Trac	2	23 Jul 97	148	0						0.00
Trac	3	23 Jul 97	145	0						0.00
Trac	2	6 Sep 00		0						0.00
Trac	3	6 Sep 00		0						0.00
Mab	1	8 Jul 77	65		0	0	0			0.00
Mab	1	8 Jul 77	137		4	0	0			3.60
Mab	2	8 Jul 77	128		1	0	1			1.93
Mab	1	13 Jul 77	235	1						4.74
Mab	2	13 Jul 77	184		1	0	0	0		0.63
Mab	2	13 Jul 77	66		0	0	0			0.00
Mab	304-1001	13 Jul 77	61		0	1	0			2.03
Mab	1	15 Jul 77	608		4	2	2	0		1.41
Mab	SP1(1)	21 Jul 97	167		0	0	0	0		0.00
Mab	2	26 Jul 97	301		0	0	0	0		0.00
Mab	SP1(1)	9 Jul 98	218		0	1	0			0.57
Mab	2	10 Jul 98	315		0	0	0			0.00
Mab	2	7 Jul 99	298		0	0	0			0.00
Mab	SP1(1)	8 Jul 99	190		0	0	0			0.00
Mab	2	12 Jul 00	315		0	0	0	0		0.00
Mab	SP1(1)	29 Aug 00	152		1	0	0			0.81
Chet	1	30 Aug 00	416		1	0	0			0.30
Chet	2	31 Aug 00	309		4	0	0			1.60
Chet	1	20 Aug 02	92	0						0.00
Chet	3	20 Aug 02	67	0						0.00
Chet	4	20 Aug 02	73	0						0.00
Chet	2	21 Aug 02	90	0						0.00

[a]River codes: Phil=Phillip, Wal=Wallace, Wa=Waugh, MRPic=Middle R. Pictou, ERPic=East R. Pictou, Sut=Sutherlands, Fr=French, Bar=Barneys, WRAnt=West R. Antigonish, SRAnt=South R. Antigonish, Pom=Pomquet, Aft=Afton, Trac=Tracadie, Mab=Mabou, Chet=Cheticamp.

[b]Single-sweep spot checks, or double sweeps for mark-recapture population estimates. In the case of double sweeps the number given is summed from both sweeps.

[c]Calculated from Zippin estimates where available. Otherwise calculated by applying conversion factors for the Southern Gulf (Table 18) to counts per sweep.

[d]10 minute spot check

[e]Fish were captured, released,and recaptured for mark-recapture estimate

[f]Area very approximate, not measured in field

[g]Referred to as Site 6 by Cameron and Gray 1979

[h]Referred to as Site 4 by Cameron and Gray 1979

[i]Area is mean of the other areas measured for the same site or system

Table 25. Densities of eels estimated from electrofishing surveys on the Margaree River, 1957-2000.

Branch[a]	Site	Date	Area (m^2)	Number of eels per sweep in sweep no.[b]							Zippin pop. est.		Eels/ 100 m^2[c]
				0.5[c]	1	2	3	4	5	6	7	Pop.	±90% CI	
FGB	40	24 Jul 57	451		3	2	0	2				10.1		1.81
FGB	41	24 Jul 57	217		2	1	1	1				8.0		2.69
FGB	42	25 Jul 57	212		2	0	1	0	0	0		3.0		1.58
FGB	43	25 Jul 57	202		1	0	0	0	0	0				0.55
NEM	52	26 Jul 57	602		3	4	1	0	1	0		9.3		1.67
SWM	93	27 Jul 57	564		5	4	9	5	4	3				5.94
SWM	97	28 Jul 57	1,027		35	25	26	17	16	19		236.5	113.1	15.02
NEM	51	29 Jul 57	585		7	2	1	0	0			10.0		1.94
NEM	54	2 Aug 57	502		10	4	4	2	0	4		27.7		5.34
FGB	40	25 Jul 58	429		1	0	0	0	0	0				0.26
FGB	41	26 Jul 58	235		3	1	0	0	0	0		4.0		1.91
FGB	42	28 Jul 58	235		0	0	1	0	0	0				0.48
FGB	43	28 Jul 58	237		1	0	1	2	0	0		6.2		1.89
NEM	52	29 Jul 58	643		3	0	0	0	0					0.53
NEM	51	4 Aug 58	462		7	3	5	3	2	1		27.6		5.08
NEM	54	6 Aug 58	372		2	3	3	1	0	1		12.2		3.00
FGB	40	28 Jul 59	429		2	5	0	0	0	1		8.5		2.08
FGB	41	29 Jul 59	235		1	0	1	1	1	0		9.9		1.90
FGB	43	30 Jul 59	220		2	1	2	0	0	0		5.1		2.54
FGB	42	31 Jul 59	224		1	1	0	0	0	0		2.0		1.00
NEM	52	1 Aug 59	694		2	2	1	1	0			6.7		0.98
NEM	54	3 Aug 59	381		6	0	1	2	0	1		10.7		2.93
NEM	51	6 Aug 59	399		7	1	4	0	2	0		14.7		3.92
SWM	97	12 Aug 59	1,027		46	17	13					86.5	14.71	9.36
FGB	40	21 Jul 60	429		2	2	0	0	0	0		4.0		1.04
FGB	41	26 Jul 60	209		1	0	0	1	0	0		2.2		1.07
FGB	43	27 Jul 60	196		1	0	0	0	0	0				0.57
FGB	42	28 Jul 60	192		1	1	0	0	1	0		3.6		1.75
NEM	52	30 Jul 60	683		2	1	0	1	2	1				1.15
NEM	51	1 Aug 60	371		6	5	0	1	0	0		12.1		3.61
SWM	97	5 Aug 60	1,027		63	77	39	23	11	34		313.0	44.94	26.88
NEM	54	8 Aug 60	392		5	6	3	5	2	0		25.1		5.99
FGB	40	19 Jul 61	415		4	2	1	0	0	0		7.0		1.89
FGB	41	20 Jul 61	232		7	2	0	0	0	0		9.0		4.34
FGB	43	21 Jul 61	189		2	1	0	0	0	0		3.0		1.77
FGB	42	22 Jul 61	179		0	0	0	0	0	0				0.00
NEM	52	27 Jul 61	719		1	3	1	2	1	0		10.9		1.24
NEM	51	28 Jul 61	277		12	5	0	0	0	0		17.0		6.86
SWM	97	31 Jul 61	1,027		19	13	7	3	9			65.1		5.63
NEM	54	2 Aug 61	303		7	8	7	10	5	3		81.6		14.74
FGB	41	30 Jul 62	234		5	0	1	1	1			8.8		3.87
NEM	51	1 Aug 63	260		10	5	7	1	0	0		23.5		9.88
NEM	54	2 Aug 63	452		6	2	2	3	2	1		20.0		3.96
FGB	40	7 Aug 63	410		2	2	2	2	2	1		29.4		3.00
NEM	52	8 Aug 63	749		4	3	1	1	0	0		9.1		1.34
SWM	97	22 Aug 63	1,027		49	22	15					101.2	19.41	10.58
SWM	97	22 Aug 63	1,011		0	0	0							0.00
NEM	53	23 Aug 63	310		0	0	0	0	0	0				0.00
IB	32	28 Aug 63	112		1	3	0	3	0	0		8.6		6.98
TB	18	4 Sep 63	138		0	0	0	0						0.00
NB	26	5 Sep 63	161		8	2	2	0	0	0		12.0		8.36
BB	14	16 Sep 63	138		2	0	0	0	0	0				1.62
GB	3	17 Sep 63	234		1	2	0	0	0	0		3.0		1.43
LOB	22	24 Sep 63	304		17	11	4	8	4	2		51.6	10.5	16.92
FGB	41	23 Jul 64	187		7	3	2	0	1	0		13.2		7.76
FGB	40	24 Jul 64	457		6	1	0	0	0			7.0		1.74
FGB	43	28 Jul 64	248		0	0	0	0	0	0				0.00
FGB	42	31 Jul 64	261		1	0	0	0						0.45
NEM	53	5 Aug 64	301		1	0	0	0	0	0				0.37
SWM	97	6 Aug 64	1,015		45	30	24	15				151.7	40.5	13.10
LOB	22	11 Aug 64	325		21	17	7	4	1	2		59.3	3.79	17.88
NB	26	19 Aug 64	182		4	0	0	1	0	0		5.0		3.07
BB	14	21 Aug 64	138		0	1	1	0						1.69
TB	18	24 Aug 64	102		0	0	0	0	0	0				0.00
IB	32	26 Aug 64	108		0	0	1	0	0	0		1.5		1.04
GB	3	28 Aug 64	232		0	1	0	0	0	0	0	1.0		0.48
BB	15	29 Sep 64	285		3	1	0	3	4	1				4.71
GB	2	2 Oct 64	281		1	2								1.07
LOB	24	6 Oct 64	166		0	0	0	0	0					0.00
NB	27	6 Oct 64	147		0	0	0	0						0.00
IB	31	8 Oct 64	187		0	0	0	0						0.00
IB	33	9 Oct 64	147		0	0	0							0.00
NEM	53	4 Aug 65	557		1	0	0	2	0					0.61
NEM	54	5 Aug 65	382		3	2	1	3	0	0		9.9		2.64
NEM	51	11 Aug 65	811		23	7	2	1				33.3		4.74
NEM	52	12 Aug 65	594		2	1	1	1	0			5.7		0.95
TB	18	13 Aug 65	102		1	0	0	1	0	0		2.2		2.19
SWM	97	18 Aug 65	1,006		46	20	9	6	0			82.3	3.56	9.12
BB	15	19 Aug 65	334		11	4	3	1	2	1		23.0		7.35
BB	14	24 Aug 65	125		2	0	0	0	0	0				1.78
IB	31	13 Sep 65	179		0	0	0	0	0	0				0.00
LOB	24	22 Sep 65	176		0	0	0	0	0	0				0.00
IB	32	13 Oct 65	108		1	0	1	0	0	0		2.0		2.07
IB	33	13 Oct 65	136		0	0	0	0	0					0.00
GB	2	14 Oct 65	278		1	0	0	0	0					0.41
GB	3	14 Oct 65	272		0	1	0	0	0					0.42
FGB	40	25 Jul 66	408		2	1	1	1	0	0		5.2		1.37
FGB	41	26 Jul 66	184		2	1	0	0	0	0		3.0		1.83
FGB	43	27 Jul 66	239		0	0	0	0	0	0				0.00
FGB	42	28 Jul 66	234		2	2	1	0	0	0		5.0		2.39
BB	14	29 Jul 66	113		1	1	0	0	0	0		2.0		1.98
LOB	24	1 Aug 66	153		1	1	0	1	0	0		3.2		2.19
SWM	97	2 Aug 66	988		48	20	8	3	1			80.8	2.87	9.17
SWM	91	3 Aug 66	418		14	13	3	6	4	1		44.9		10.97
NEM	52	4 Aug 66	640		1	2	3	1	1	0		20.8		1.40
NEM	51	5 Aug 66	990		6	2	6	3	0			20.8		1.95
NEM	53	8 Aug 66	557		1	0	0	0	0	0				0.20
NEM	54	9 Aug 66	354		0	2	1	0	0	0		3.2		0.95
TB	18	12 Aug 66	116		0	0	0	0	0					0.00
NB	27	15 Aug 66	151		0	0	0	0	0					0.00
BB	15	18 Aug 66	446		9	8	3	1	0			21.6		5.34
IB	33	19 Aug 66	127		0	0	0	0	0					0.00
LOB	22	23 Aug 66	186		32	5	4	3	0			44.2		26.84
NB	26	23 Aug 66	156		0	1	0	1	0					1.45
GB	4	24 Aug 66	151		2	2	1	0	0			5.1		3.75
IB	32	24 Aug 66	108		0	0	0	0	0					0.00
GB	2	29 Aug 66	278		5	0	0	0	0	0				2.01
GB	3	30 Aug 66	250		2	1	0	0	0	0		3.0		1.34
IB	31	1 Sep 66	165		0	0	0	0	0	0				0.00
FGB	40	27 Jul 67	367		1	0	0	0	0	0				0.30
NEM	53	28 Jul 67	516		2	0	1	0	0	0		3.0		0.65
NEM	54	1 Aug 67	424		7	4	1	1	1	0		14.2		3.69
NEM	51	2 Aug 67	1,137		11	4	1	3	1			21.0		1.99
NEM	52	3 Aug 67	671		2	1	0	0	0	0		3.0		0.50
FGB	42	4 Aug 67	224		2	1	1	0	0	0		4.0		2.00
FGB	41	7 Aug 67	209		1	0	0	0	0	0				0.53
FGB	43	7 Aug 67	383		1	0	0	0	0	0				0.29
IB	32	8 Aug 67	120		0	0	0	0	0	0				0.00
IB	33	8 Aug 67	127		0	0	0	0	0					0.00
IB	31	9 Aug 67	175		0	0	0	0	0	0				0.00
NB	26	10 Aug 67	176		1	0	0	0	0	0				0.64
NB	27	10 Aug 67	120		0	0	0	0	0	0				0.00
LOB	24	11 Aug 67	190		1	1	1	0	0	0		3.1		1.77
NEM	58	16 Aug 67	350		4	1	1	1	1	1		10.8		2.87
LOB	22	18 Aug 67	252		18	8	7	2	2	1		39.2		16.86
BB	15	21 Aug 67	376		2	4	4	1	1	1		17.3		3.87
GB	4	22 Aug 67	145		1	0	0	0	0	0				0.77
BB	14	22 Aug 67	121		1	0	0	0	0					0.94
GB	2	23 Aug 67	230		3	1	2	1	0			7.7		3.45
GB	3	23 Aug 67	237		2	1	1	0	0	0		4.0		1.89
SWM	91	24 Aug 67	690		21	15	9	3	2	0		51.2	3.79	8.10
NEM	58	31 Jul 68	223		5	0	4	0	0	0		9.1		4.51
NEM	59	1 Aug 68	213		0	1								0.71
NEM	57	2 Aug 68	217		4	1	0	1	0	0		6.0		3.09
NEM	60	8 Aug 68	195		1	0	0	0	0	0				0.57
FGB	41	9 Aug 68	157		3	2	0	2	0	0		7.3		4.98
NEM	53	13 Aug 68	530		0	0	0	0	0	0				0.00
NEM	54	14 Aug 68	404		1	0	0	0	0	0				0.28
LOB	22	15 Aug 68	244		10	9	4	1	3	0		28.2		12.37
LOB	24	28 Aug 68	162		1	1	0	0	0	0		2.0		1.38
GB	4	29 Aug 68	201		0	0	0	0	0	0				0.00
NB	26	10 Sep 68	195		0	0	0	0	0	0				0.00
NB	27	10 Sep 68	279		1	0	0	0	0	0				0.40
FGB	43	11 Sep 68	411		0	0	0	0	0	0				0.00
FGB	42	12 Sep 68	268		0	0	0	0	0	0				0.00
FGB	40	13 Sep 68	251		1	0	0	0	0	0				0.45
GB	3	16 Sep 68	293		0	0	0	0	0	0				0.00
GB	2	17 Sep 68	247		1	1	0	0	0	0		2.0		0.91
NEM	52	18 Sep 68	716		0	0	0	0	0	0				0.00
NEM	51	19 Sep 68	914		0	0	0	0	0	0				0.00
BB	15	20 Sep 68	320		3	2	2	1	0	0		8.3		2.79
IB	31	24 Sep 68	159		0	0	0	0	0	0				0.00
NEM	58	7 Aug 69	223		4	2	4	1	1	0		13.1		6.02
NEM	60	7 Aug 69	195		3	0	2	1	0	0		6.3		3.44
NEM	59	8 Aug 69	213		0	0	0	0	0	0				0.00
NEM	57	9 Aug 69	217		0	0	0	0	0	0				0.00
FGB	43	12 Aug 69	385		1	0	0	0	0	0				0.29
FGB	41	13 Aug 69	157		1	0	0	0	0	0				0.71
FGB	40	14 Aug 69	146		0	0	0	0	0	0				0.00
NEM	52	16 Aug 69	697		1	1	2	0	0	1		7.7		0.80
FGB	42	19 Aug 69	254		1	0	0	0	0	0				0.44
NEM	53	20 Aug 69	334		0	0	0	0	0	0				0.00
FGB	40	21 Jul 75	471		1	0	1	0	0			2.1		0.48
FGB	42	23 Jul 75	422		2	0	0	0	0					0.54
NEM	51	24 Jul 75	669		3	0	0	1	0			4.1		0.68
NEM	54	28 Jul 75	800		1	1	1	0	1			8.6		0.57
NEM	53	30 Jul 75	683		0	0	0	0	0					0.00
BB	15	31 Jul 75	446		1	3	2	0	0			6.7		1.53
TB	19	1 Aug 75	179		0	0	0	0	0					0.00
NB	27	4 Aug 75	164		0	1	1	0						1.42

Table 25 (continued)

Branch[a]	Site	Date	Area (m^2)	Number of eels per sweep in sweep no.								Zippin pop. est.		Eels/ 100 m^{2a}
				0.5[b]	1	2	3	4	5	6	7	Pop.	±90% CI	
BB	12	5 Aug 75	382		0	0	0	0	0					0.00
BB	13	6 Aug 75	129		0	3	0	0				3.7		2.71
LOB	22	7 Aug 75	257		22	14	6	3	0	0	0	45.4		19.59
LOB	23	8 Aug 75	472		3	4	2	0	0			9.4		2.16
GB	2	11 Aug 75	200		3	1	2					11.3		3.79
NEM	56	12 Aug 75	575		5	1	0					6.0		1.32
IB	31	14 Aug 75	182		0	0	0	0	0	0	0			0.00
IB	32	15 Aug 75	111		0	0	0							0.00
GB	4	19 Aug 75	171		0	0	0	0	0					0.00
NB	26	20 Aug 75	160		0	0	0	0	0					0.00
GB	3	21 Aug 75	308		1	2	0	0	0			3.0		1.11
SWM	90	22 Aug 75	515		19									9.01
SWM	95	25 Aug 75	490		4	0	0	1	0			5.0		1.16
MB	96	27 Aug 75	363		1	2	0	1	0			4.6		1.25
SWM	92	4 Sep 75	737		17	9	6	4				41.7		5.70
FGB	42	9 Sep 75	422		0	2	0	1	1					1.08
NEM	52	12 Sep 75	692		5	1	2	0	0			8.1		1.31
NEM	56	17 Sep 75	575		0	0	0	0	1					0.20
FGB	41	23 Sep 75	272		0	0	1	0	0	0		1.5		0.41
IB	34	24 Sep 75	297		3	2	0	1	0			6.2		2.29
IB	33	25 Sep 75	127		0	0	0							0.00
IB	33	25 Sep 75	129		0	0	0							0.00
FGB	42	20 Jul 76	340		2	3	0	0				5.2		1.71
NB	27	22 Jul 76	210		0	0	0	0	0					0.00
NEM	51	23 Jul 76	483		0	2	1	0	0			3.6		0.70
NEM	52	26 Jul 76	698		3	0	1	2				14.5		1.00
NEM	54	27 Jul 76	903		4	7	1	3	1			19.9		2.01
NEM	53	29 Jul 76	528		0	0	0	0	0					0.00
BB	15	30 Jul 76	405		4	1	1					6.5		1.87
BB	12	3 Aug 76	339		0	0	0	0	0	0	0			0.00
BB	13	4 Aug 76	230		1	0	0	0						0.51
TB	19	4 Aug 76	87		0	0	0	0						0.00
LOB	22	5 Aug 76	261		9	9	6	3				37.4		12.06
GB	2	9 Aug 76	257		1	2	0	3	0			17.6		2.65
GB	4	10 Aug 76	172		0	0	0	0	1	0	0			0.65
GB	3	11 Aug 76	360		1	1	0	1				7.2		0.97
IB	31	12 Aug 76	192		0	0	0	0	0	0				0.00
NEM	56	13 Aug 76	609		2	1	2	1	2					1.49
IB	32	16 Aug 76	118		0	0	0							0.00
FGB	41	17 Aug 76	300		0	0	0	1	0					0.38
IB	34	18 Aug 76	432		2	1	1	0	0	0		4.0		1.04
NB	26	19 Aug 76	126		2	0	0							2.01
SWM	90	20 Aug 76	557		8	4	1					13.9		2.95
SWM	92	23 Aug 76	806		21	17	12	12	4			84.1	26.02	9.28
MB	96	24 Aug 76	419		3	1	1	0				5.2		1.39
SWM	95	25 Aug 76	506		0	2	0	0				2.5		0.46
LOB	23	26 Aug 76	806		0	0	0							0.00
FGB	43	25 Jul 77	872		2	0	1	0				3.1		0.40
NB	27	27 Jul 77	206		1	0	0	0						0.57
IB	31	28 Jul 77	206		1	0	0	0	0					0.55
FGB	42	29 Jul 77	530		0	0	1	1	0					0.43
LOB	23	2 Aug 77	487		2	3	2	2						2.15
LOB	22	3 Aug 77	348		7	14	2					36.5		8.36
FGB	41	4 Aug 77	323		2	2	1	2	0			9.1		2.46
BB	15	5 Aug 77	464		1	0	0	1						0.50
NEM	54	9 Aug 77	887		9	12	3	1				27.8		3.29
NEM	51	11 Aug 77	580		2	0	1	0	0			3.0		0.59
NEM	52	12 Aug 77	824		0	2	1							0.46
NEM	58	16 Aug 77	259		0	1	2	1	0					1.75
NEM	57	17 Aug 77	203		0	0	0							0.00
MB	96	17 Aug 77	468		1	1	1							0.81
SWM	95	22 Aug 77	535		3	2	0	0				5.0		1.09
NEM	53	24 Aug 77	492		0	0	0							0.00
FGB	42	25 Jul 78	548		0	2	2	0						0.85
FGB	40	26 Jul 78	286		0	1	0	0				1.2		0.41
FGB	41	26 Jul 78	269		0	0	0	0						0.00
NEM	54	27 Jul 78	896		7	4	4	2				22.1		2.21
NEM	53	28 Jul 78	450		0	0	0							0.00
NEM	57	31 Jul 78	168		2	0	0	0						1.39
NEM	58	1 Aug 78	250		1	0	0	0						0.47
NEM	51	3 Aug 78	594		3	0	1	0	0			4.0		0.76
NEM	52	4 Aug 78	675		1	1	0					2.2		0.37
LOB	22	7 Aug 78	310		13	8	4	3				32.0		10.53
LOB	23	8 Aug 78	415		2	1	1	0				4.3		1.12
NB	27	8 Aug 78	171		0	0	0							0.00
BB	15	9 Aug 78	328		2	1	0					3.1		1.16
IB	31	10 Aug 78	184		0	1	0							0.69
IB	32	11 Aug 78	110		0	0	0							0.00
IB	34	14 Aug 78	382		1	1	2							1.32
GB	4	18 Aug 78	126		2	0	0							2.01
GB	3	21 Aug 78	360		1	0	1							0.70
SWM	96	22 Aug 78	406		1	4	1							1.87
SWM	95	24 Aug 78	425		1	0	0							0.30
NB	27	9 Jul 79	211		2	0	0	0						1.11
GB	4	10 Jul 79	227		0	1	0							0.56
LOB	22	11 Jul 79	348		19	7	3	0				29.4		9.73
FGB	41	12 Jul 79	213		0	0	0							0.00
BB	12	16 Jul 79	394		0	0	0							0.00
BB	15	16 Jul 79	321		1	0	0							0.39
GB	2	22 Jul 79	232		1	0	0							0.55
FGB	42	25 Jul 79	558		3	0	1	0				4.1		0.84
NEM	54	26 Jul 79	1,018		4	8	1					19.9		1.62
GB	3	28 Jul 79	266		1	0	0	0	0					0.43
IB	31	31 Jul 79	195		1	0	0	0	0	0	0			0.57
LOB	23	10 Aug 79	499		2	2	0	0				4.1		0.94
IB	34	17 Aug 79	415		2	1	0	0				3.0		0.84
NEM	52	20 Aug 79	616		2	1	1	0				4.3		0.76
GB	5	21 Aug 79	374		3	0	0	0						0.93
NEM	51	22 Aug 79	596		2	1	0					3.1		0.64
NEM	57	28 Aug 79	230		0	0	0							0.00
FGB	45	27 May 86	361		0	1	0							0.35
LOB	23	28 May 86	249		0	0	0	0	0					0.00
GB	2	11 Jul 86	372		0	0	0	0						0.00
LOB	22	12 Jul 86	246		4	3	0	0				7.1		3.32
FGB	45L	13 Jul 86	151		0	0	0	0						0.00
FGB	45U	13 Jul 86	157		0	0	0	0						0.00
IB	34	14 Jul 86	398		0	0	0	0						0.00
BB	15	15 Jul 86	331		1	0	0	0						0.35
NEM	51	23 Jul 86	290		1	0	0	0						0.40
NEM	52	24 Jul 86	486		1	1	0					2.2		0.52
NEM	55	25 Jul 86	305		0	0	0							0.00
FGB	45L	21 Aug 86	150		2	0	0	0						1.56
FGB	45U	21 Aug 86	151		1	0	0	0						0.77
LOB	22	27 Jul 87	181		5	0	1	0				6.0		3.87
FGB	45L	28 Jul 87	141		0	0	0	0						0.00
FGB	45U	28 Jul 87	135		0	0	0	0						0.00
BB	15	30 Jul 87	313		0	0	0	0						0.00
BB	15	1991	222											0.00
MB	96	1991	240											0.00
TrB	98	1991	251		3	1	0	0				4.0		1.86
FGB	45-1	1991	234		0	0	4	0						1.99
FGB	45-2	1991	387		1	1	4							1.96
BB	15	1992	209											0.00
FGB	40	1992	128											0.00
FGB	45	1992	171											0.00
MB	96	1992	135											0.00
TrB	98	1992	191											0.00
BB	15	1993	216											0.00
FGB	45	1993	226											0.00
MB	96	1993	185											0.00
BB	15	1994	148											0.00
FGB	40	1994	116											0.00
FGB	45	1994	193											0.00
MB	96	1994	160		1	0	0	0						0.73
TrB	98	1994	174											0.00
BB	15	1995	147											0.00
FGB	40	1995	131											0.00
FGB	45	1995	172											0.00
OBB	51	1995	443		0	1	0							0.29
MB	96	1995	289		1	0	0	0						0.40
TrB	98	1995	179											0.00
BB	15	1996	215											0.00
FGB	45	1996	249											0.00
OBB	51	1996	477											0.00
MB	96	1996	317											0.00
TrB	98	1996	210											0.00
BB	15	1997	171		1	0	0	0						0.68
FGB	45	1997	235											0.00
OBB	51	1997	421		1	0	0							0.30
MB	96	1997	268											0.00
TrB	98	1997	206											0.00
BB	15	1998	242											0.00
FGB	45	1998	207											0.00
OBB	51	1998	508		2	0	0							0.50
MB	96	1998	258											0.00
TrB	98	1998	196											0.00
BB	15	1999	215											0.00
FGB	45	1999	248											0.00
OBB	51	1999	543											0.00
MB	96	1999	247											0.00
TrB	98	1999	220											0.00
BB	15	2000	198											0.00
FGB	45	2000	226											0.00
OBB	51	2000	360											0.00
MB	96	2000	248											0.00
TrB	98	2000	208		2	0	0	0						1.12
BB	15	2001	181											0.00
FGB	45	2001	218											0.00
MB	96	2001	196											0.00
TrB	98	2001	197		0	0	1	0						0.59

Table 25 (continued)

Branch[a]	Site	Date	Area (m^2)	Number of eels per sweep in sweep no.								Zippin pop. est.		Eels/ 100 m^2[d]
				0.5[c]	1	2	3	4	5	6	7	Pop.	±90% CI	
SWM	100	8 Jul 02	161	9										62.08
NEM	53B	11 Jul 02	103	0										0.00
NEM	55B	12 Jul 02	110	0										0.00
SWM	91B	15 Jul 02	117	0										0.00
MPB	95C	15 Jul 02	101	0	0	0	0							0.00
NB	27C	16 Jul 02	147	0	0	0	0	0						0.00
MPB	95U	17 Jul 02	116	0										0.00
MPB	95L	22 Jul 02	104	0										0.00
SWM	103L	23 Jul 02	91	1										12.22
NB	27L	23 Jul 02	67	0										0.00
NB	27U	23 Jul 02	83	0										0.00
SWM	103C	24 Jul 02	163	0	0	0	0							0.00
LOB	22C	25 Jul 02	170	0	1	0	0							0.76
Main	102	29 Jul 02	238	0										0.00
SWM	103U	29 Jul 02	143	0										0.00
LOB	22L	29 Jul 02	143	0										0.00
LOB	22U	29 Jul 02	152	0										0.00
IB	34L	30 Jul 02	96	0										0.00
IB	34U	30 Jul 02	123	0										0.00
IB	34C	31 Jul 02	184	0	0	0	0	0						0.00
SB	104L	1 Aug 02	60	0										0.00
SB	104U	1 Aug 02	81	0										0.00
FGB	41B	2 Aug 02	98	0										0.00
FGB	47B	2 Aug 02	99	0										0.00
NEM	54	3 Aug 02		0										0.00
MB	96	3 Aug 02	124	0										0.00
MB	96C	3 Aug 02	110	0	0	0	0							0.00
MB	96L	3 Aug 02	116	0										0.00
MB	96U	3 Aug 02	95	0										0.00
TrB	98	4 Aug 02	195	0	0	0	0							0.00
TrB	98L	4 Aug 02	109	0										0.00
TrB	98U	4 Aug 02	129	0										0.00
GB	2	5 Aug 02	119	0										0.00
GB	3	5 Aug 02	170	0										0.00
GB	4	5 Aug 02	148	0										0.00
NEM	52	13 Aug 02	71	0										0.00
BB	13B	14 Aug 02	72	0										0.00
BB	12	16 Aug 02	60	0										0.00
LOB	105	20 Aug 02	62	0										0.00
LOB	106	21 Aug 02	46	0										0.00
MB	46	30 Jul 03	189	1	0	0	0	0						0.62
FGB	45	31 Jul 03	256	0	0	0	0							0.00
TrB	98	5 Aug 03	197	0	0	0	0	0						0.00
BB	15	13 Aug 03	189	0	0	0	0	0						0.00
OBB	51	14 Aug 03	385		0	0	0	0						0.00
GB	2	14 Sep 04	247	1										4.50
BB	15	14 Sep 04		0										0.00
LOB	22L	14 Sep 04		0										0.00
IB	34C	14 Sep 04		0										0.00
FGB	40	15 Sep 04		0										0.00
FGB	45	15 Sep 04		0										0.00
OBB	51	15 Sep 04		0										0.00
ML	52	15 Sep 04		0										0.00
MB	96	16 Sep 04		0										0.00
TrB	98	16 Sep 04		0										0.00
SM	100	16 Sep 04		0										0.00
BP	103C	16 Sep 04		0										0.00
DB	53B	16 Sep 04		0										0.00
LOB	105	17 Sep 04		0										0.00
TP	56B	17 Sep 04		0										0.00
BB	15	12 Sep 05	183	0										0.00
FGB	45	13 Sep 05	169	0										0.00
BP	103C	13 Sep 05	217	0										0.00
LOB	22L	13 Sep 05	137	0										0.00
SWM	91B	13 Sep 05	289	0										0.00
GB	2	14 Sep 05	257	0										0.00
MB	96	14 Sep 05	183	0										0.00
TrB	98	14 Sep 05	212	0										0.00
IB	34C	14 Sep 05	131	0										0.00
FGB	40	15 Sep 05	205	0										0.00
OBB	51	15 Sep 05	138	0										0.00
ML	52	15 Sep 05	146	0										0.00
TP	56B	15 Sep 05	233	0										0.00
GB	2	16 Aug 06	320	0										0.00
BB	15	11 Sep 06	134	0										0.00
LOB	22L	11 Sep 06	148	0										0.00
FGB	40	12 Sep 06	199	0										0.00
FGB	45	12 Sep 06	201	0										0.00
OBB	51	12 Sep 06	251	0										0.00
ML	52	12 Sep 06	211	0										0.00
BP	103C	13 Sep 06	313	0										0.00
IB	34C	13 Sep 06	125	0										0.00
TP	56B	13 Sep 06	239	0										0.00
SWM	91B	13 Sep 06	374	0										0.00
MB	96	14 Sep 06	198	0										0.00
TrB	98	14 Sep 06	220	0										0.00

[a]BB=Big Brook, FGB=Forest Glen Brook, GB=Gallant Brook, IB=Ingram Brook, LOB=Lake O'Law Brook, Main=Main Branch, MB=MacFarlanes Brook, MPB=Mount Pleasant Brook, NB=Nile Brook, NEM=North East Margaree R., OBB=Old Bridge Brook, SB=Stewart Brook, SWM=South West Margaree R., TB=Tompkins Brook, TrB=Trout Brook.

[b]Number of sweeps in 1991-2001 was either 3 or 4.

[c]Sweep 0.5 is a sweep without barrier nets that is conducted alone, or conducted prior to regular Zippin sweeps.

[d]Calculated from Zippin estimates where available. Otherwise calculated by applying conversion factors (Table 18) to counts per sweep. Conversion factors derived from southern Gulf data were used where only Sweep 0.5 was done, and where Sweeps 0.5, 1, 2, and 3 were done. In other cases correction factors derived from Margaree data were used.

Table 26. Densities of eels estimated from electrofishing surveys in Prince Edward Island, 1975-2002. Data from Cairns 2002.

River[a]	Site[b]	Date	Area (m^2)	Number of eels per sweep in sweep no. 0.5[c]	1	2	3	4	5	Zippin pop. est. Pop.	90% CI (+/-)	Eels/ 100 m^2[d]
TC	BH	2 Oct 93	226		0	0	0	0				0.00
El	1	21 Oct 93	172		0	0	0	0				0.00
El	2	21 Oct 93	146		0	0	0	0				0.00
El	3	21 Oct 93	100		0	0	0	0				0.00
El	4	21 Oct 93	117		0	0	0	0				0.00
El	3	17 Jun 94	100		0	0	0	0				0.00
El	4	20 Jun 94	124		0	0	0	0				0.00
El	1	27 Jun 94	172		0	0	0	0				0.00
El	2	28 Jun 94	141		0	0	0					0.00
El	3	18 Jul 94	90		0	0	0	0				0.00
El	4	19 Jul 94	110		0	0	0					0.00
El	1	20 Jul 94	152		0	0	0	0				0.00
El	2	22 Jul 94	132		0	0	0	0				0.00
El	3	19 Sep 94	87		0	0	0	0				0.00
El	4	20 Sep 94	114		0	0	0					0.00
El	2	21 Sep 94	120		0	0	0	0				0.00
El	1	22 Sep 94	154		0	0	0	0				0.00
El	4	3 Jul 95	111		0	0	0					0.00
El	3	4 Jul 95	99		0	0	0	0				0.00
El	1	5 Jul 95	150		0	0	0	0				0.00
El	2	5 Jul 95	118		0	0	0	0				0.00
El	4	13 Aug 95	100		0	0	0					0.00
El	3	14 Aug 95	90		0	0	0	0				0.00
El	1	15 Aug 95	153		0	0	0	0				0.00
El	2	15 Aug 95	138		0	0	0	0				0.00
El	1	27 Sep 95	147		0	0	0	0				0.00
El	2	28 Sep 95	128		0	0	0	0				0.00
El	4	28 Sep 95	105		0	0	0					0.00
El	3	29 Sep 95	103		0	0	0	0				0.00
Mor	LB	8 Sep 75	337		20	10	4	4	2	43.77		13.00
Mor	F	9 Sep 75	331		14	2	3	1	2	20.61		6.22
Mor	G	10 Sep 75	347		4	8	1	3	2	22.79		6.57
Mor	MT	11 Sep 75	381		11	4	2	3	0	20.68		5.43
Mor	IB	12 Sep 75	354		19	19	15	10		114.77		32.44
Mor	KH	22 Aug 84	336		2	0	0	0	0			0.66
Mor	LB	23 Aug 84	305		33	10	4	2	2	51.57	2.43	16.91
Mor	C	30 Aug 84	400		33	7	3	4	0	47.29		11.82
Mor	F	11 Sep 84	363		8	3	1	0		12.12		3.34
Mor	KH	21 Aug 85	466		6	1	1	0		8.05		1.73
Mor	LB	22 Aug 85	541		42	21	20	15	9	128.91	23.52	23.82
Mor	LL	23 Aug 85	347		0	1	2	1	0			1.28
Mor	C	27 Aug 85	400		6	4	0	1	0	11.13		2.78
Mor	MT	28 Aug 85	374		2	1	1	0		4.29		1.15
Mor	RR	5 Sep 85	183		2	3	2	0	0	7.44		4.06
Mor	KH	23 Aug 94	188		2	3	2					4.60
Mor	LB	24 Aug 94	200		9	4	1	1		15.49		7.74
Mor	C	30 Aug 94	347		1	0	0	0				0.33
Mor	F	1 Sep 94	370		2	1	0	0		3.01		0.81
Mor	MT	6 Sep 94	293		0	0	0	0				0.00
Mor	RR	7 Sep 94	307		3	2	0	0		5.04		1.64
Mor	KH	15 Dec 94	188		0							0.00
Mor	C	16 Dec 94	347		0							0.00
Mor	LB	16 Dec 94	200		0							0.00
Mor	F	20 Dec 94	370		0							0.00
Mor	MT	23 Dec 94	293		0							0.00
Mor	RR	27 Dec 94	307		0							0.00
Mor	KH	24 Jul 95	196		7	1	0			8.01		4
Mor	LB	26 Jul 95	204		2	4	2					4.84
Mor	C	27 Jul 95	332		1	0	0	0				0.35
Mor	F	31 Jul 95	380		1	2	0	0		3.14		0.83
Mor	RR	4 Aug 95	312		4	0	1			5.21		1.67
Mor	E	7 Aug 95	165		0							0.00
Mor	ALP	8 Aug 95	398		3							1.98
Mor	G	8 Aug 95	344		1							0.77
Mor	M	8 Aug 95	149		0							0.00
Mor	LC	9 Aug 95	197		0							0.00
Mor	OC	10 Aug 95	153		0							0.00
Mor	UK	10 Aug 95	196		0							0.00
Mor	GR	11 Aug 95	82		0							0.00
Mor	MT	15 Aug 95	138		0							0.00
Mor	O	22 Aug 95	255		0							0.00
Mor	C	24 Oct 95	341		0	0	0					0.00
Mor	LB	25 Oct 95	204		0	0	0					0.00
Mor	KH	26 Oct 95	202		0	0	0					0.00
Mor	F	27 Oct 95	374		0	0	0					0.00
Mor	RR	31 Oct 95	310		0	0	0					0.00
Mor	MT	1 Nov 95	139		0							0.00
Mor	OC	1 Nov 95	149		0							0.00
Mor	UK	1 Nov 95	190		0							0.00
Mor	ALP	2 Nov 95	435		2							1.21
Mor	E	2 Nov 95	194		0							0.00
Mor	LC	2 Nov 95	210		0							0.00
Mor	G	3 Nov 95	370		0							0.00
Mor	M	3 Nov 95	192		0							0.00
Mor	GR	6 Nov 95	81		0							0.00
Mor	O	7 Nov 95	255		0							0.00
Mor	KH	14 Aug 96	201		0	0	1					0.61
Mor	OC	15 Aug 96	161		0							0.00
Mor	LB	19 Aug 96	234		1	1	0			2.18		0.93
Mor	UK	19 Aug 96	178		1							1.47
Mor	C	20 Aug 96	350		0	0	0					0.00
Mor	F	21 Aug 96	405		0	0	0					0.00
Mor	G	21 Aug 96	466		0							0.00
Mor	MT	22 Aug 96	130		0							0.00
Mor	M	26 Aug 96	154		0							0.00
Mor	E	28 Aug 96	194		2							2.71
Mor	GR	28 Aug 96	80		0							0.00
Mor	LC	29 Aug 96	193		0							0.00
Mor	ALP	30 Aug 96	378		0							0.00
Mor	RR	4 Sep 96	333		0	0	0					0.00
Mor	GR	25 Aug 97	76		0							0.00
Mor	E	26 Aug 97	163		0							0.00
Mor	M	26 Aug 97	145		1							1.78
Mor	KH	28 Aug 97	220		0	0	0					0.00
Mor	F	4 Sep 97	172		0	0	0					0.00
Mor	G	4 Sep 97	403		0							0.00
Mor	MT	4 Sep 97	142		0	0	0					0.00
Mor	ALP	7 Sep 97	378		3							2.09
Mor	LB	7 Sep 97	235		3	0	0					1.57
Mor	RR	8 Sep 97	242		0	0	0					0.00
Mor	LC	10 Sep 97	193		0							0.00
Mor	UK	10 Sep 97	183		1	0	0					0.67
Mor	OC	15 Sep 97	161		0	0	0					0.00
Mor	C	24 Sep 97	383		0	0	0					0.00
Mor	KH	11 Aug 98	195		3	2	3					5.06
Mor	LB	17 Aug 98	179		4	6	5					10.35
Mor	C	21 Aug 98	306		3	0	3					2.42
Mor	F	28 Aug 98	371		2	0	0					0.67
Mor	MT	11 Sep 98	348		0	0	0	0				0.00
Mor	RR	16 Sep 98	310		0	0	0					0.00
Mor	KH	11 Sep 01	189		0	2	1					1.96
Mor	C	12 Sep 01	565		6	2	2			11.72		2.08
Mor	LB	12 Sep 01	176		4	4	0			8.71		4.96
Mor	F	17 Sep 01	367		0	0	0					0.00
Mor	MT	18 Sep 01	343		1	0	0					0.36
Mor	RR	19 Sep 01	306		1	2	0					1.21
Mor	F	9 Oct 02	298	0								0.00
Mor	KH	9 Oct 02	282	0								0.00
Mor	LB	9 Oct 02	276	0								0.00
Mor	RR	9 Oct 02	471	2								4.72
Ver	1	15 Sep 93	92		0	0	0	0				0.00
Ver	2	16 Sep 93	107		0	0	0					0.00
Ver	3	20 Sep 93	72		0	0	0					0.00
Ver	4	21 Sep 93	114		0	0	0	0				0.00
Ver	1	2 Jun 94	92		0	0	0	0				0.00
Ver	4	10 Jun 94	109		0	0	0					0.00
Ver	3	14 Jun 94	80		0	0	0					0.00
Ver	2	15 Jun 94	109		0	0	0	0				0.00
Ver	1	22 Jul 94	81		0	0	0					0.00
Ver	2	22 Jul 94	104		0	0	0					0.00
Ver	3	25 Jul 94	76		0	0	0	0				0.00
Ver	4	26 Jul 94	95		0	0	0					0.00
Ver	1	19 Sep 94	81		0	0	0					0.00
Ver	2	22 Sep 94	105		0	0	0					0.00
Ver	3	22 Sep 94	74		0	0	0					0.00
Ver	4	23 Sep 94	103		0	0	0					0.00
Ver	1	6 Jul 95	97		0	0	0					0.00
Ver	2	12 Jul 95	111		0	0	0					0.00
Ver	3	12 Jul 95	83		0	0	0					0.00
Ver	4	13 Jul 95	111		0	0	0					0.00
Ver	1	18 Oct 95	85		0	0	0					0.00
Ver	2	19 Oct 95	112		0	0	0					0.00
Ver	3	20 Oct 95	82		0	0	0					0.00
Ver	4	20 Oct 95	112		0	0	0					0.00
SV	1	3 Sep 93	50		0	0	0	0				0.00
SV	2	7 Sep 93	48		0	0	0	0				0.00

Table 26 (continued)

River[a]	Site[b]	Date	Area (m^2)	Number of eels per sweep in sweep no.					Zippin pop. est.		Eels/ 100 m^2[d]
				0.5[c]	1	2	3	4	5	Pop.	90% CI (+/-)	
SV	3	9 Sep 93	77		0	0	0	0				0.00
SV	4	14 Sep 93	48		0	0	0	0				0.00
SV	1	30 May 94	50		0	0	0					0.00
SV	2	31 May 94	52		0	0	0					0.00
SV	3	1 Jun 94	80		0	0	0					0.00
SV	4	8 Jun 94	59		0	0	0					0.00
SV	1	20 Jul 94	49		0	0	0	0				0.00
SV	4	20 Jul 94	52		0	0	0					0.00
SV	2	21 Jul 94	52		0	0	0					0.00
SV	3	21 Jul 94	82		0	0	0					0.00
SV	1	19 Sep 94	46		0	0	0					0.00
SV	2	20 Sep 94	48		0	0	0					0.00
SV	3	20 Sep 94	76		0	0	0					0.00
SV	4	21 Sep 94	55		0	0	0					0.00
SV	4	7 Jul 95	58		0	0	0					0.00
SV	1	11 Jul 95	66		0	0	0					0.00
SV	2	11 Jul 95	58		0	0	0					0.00
SV	3	11 Jul 95	79		0	0	0					0.00
SV	1	17 Oct 95	70		0	0	0					0.00
SV	4	17 Oct 95	58		0	0	0					0.00
SV	2	23 Oct 95	51		0	0	0					0.00
SV	3	23 Oct 95	84		0	0	0					0.00
En	2	1 Oct 93	144		0	0	0	0				0.00
En	1	4 Oct 93	98		0	0	0	0				0.00
En	4	6 Oct 93	115		0	0	0	0				0.00
En	3	12 Nov 93	130		0	0	0	0				0.00
En	1	6 Jun 94	106		0	0	0	0				0.00
En	2	8 Jun 94	157		0	0	0	0				0.00
En	3	9 Jun 94	141		0	0	0					0.00
En	4	13 Jun 94	96		0	0	0	0				0.00
En	1	3 Jul 94	115		0	0	0					0.00
En	2	5 Jul 94	149		0	0	0					0.00
En	3	6 Jul 94	119		0	0	0					0.00
En	4	7 Jul 94	92		0	0	0					0.00
En	1	15 Aug 94	89		0	0	0					0.00
En	2	15 Aug 94	80		0	0	0	0				0.00
En	3	16 Aug 94	99		0	0	0					0.00
En	4	17 Aug 94	84		0	0	0	0				0.00
En	1	11 Oct 94	83		0	0	0					0.00
En	2	11 Oct 94	127		0	0	0					0.00
En	3	12 Oct 94	102		0	0	0					0.00
En	4	12 Oct 94	78		0	0	0					0.00
En	1	22 Jun 95	91		0	0	0					0.00
En	2	22 Jun 95	127		0	0	0					0.00
En	4	23 Jun 95	86		0	0	0	0				0.00
En	3	26 Jun 95	106		0	0	0					0.00
En	1	7 Aug 95	76		0	0	0					0.00
En	2	7 Aug 95	107		0	0	0	0				0.00
En	3	8 Aug 95	94		0	0	0					0.00
En	4	9 Aug 95	84		0	0	0	0				0.00
En	1	19 Sep 95	103		0	0	0					0.00
En	2	19 Sep 95	140		0	0	0					0.00
En	4	22 Sep 95	93		0	0	0					0.00
En	3	25 Sep 95	88		0	0	0					0.00
LPJ	2	8 Oct 93	93		0	0	0	0				0.00
LPJ	1	12 Oct 93	125		0	0	0	0				0.00
LPJ	3	14 Oct 93	114		0	0	0	0				0.00
LPJ	4	19 Oct 93	144		0	0	0	0				0.00
LPJ	1	14 Jun 94	135		0	0	0	0				0.00
LPJ	2	15 Jun 94	111		0	0	0					0.00
LPJ	4	16 Jun 94	161		0	0	0	0				0.00
LPJ	3	18 Jun 94	157		0	0	0					0.00
LPJ	1	11 Jul 94	135		0	0	0	0				0.00
LPJ	2	12 Jul 94	115		0	0	0	0				0.00
LPJ	3	13 Jul 94	126		0	0	0	0				0.00
LPJ	4	14 Jul 94	145		0	0	0	0				0.00
LPJ	1	7 Sep 94	125		0	0	0	0				0.00
LPJ	3	7 Sep 94	123		0	0	0					0.00
LPJ	2	8 Sep 94	104		0	0	0	0				0.00
LPJ	4	8 Sep 94	133		0	0	0					0.00
LPJ	2	27 Jun 95	106		0	0	0	0				0.00
LPJ	1	28 Jun 95	128		0	0	0					0.00
LPJ	3	29 Jun 95	125		0	0	0	0				0.00
LPJ	4	30 Jun 95	132		0	0	0	0				0.00
LPJ	1	10 Aug 95	116		0	0	0					0.00
LPJ	2	10 Aug 95	92		0	0	0	0				0.00
LPJ	3	11 Aug 95	129		0	0	0	0				0.00
LPJ	4	11 Aug 95	106		0	0	0					0.00
LPJ	1	25 Sep 95	115		0	0	0	0				0.00
LPJ	2	26 Sep 95	93		0	0	0	0				0.00
LPJ	3	26 Sep 95	104		0	0	0					0.00
LPJ	4	27 Sep 95	118		0	0	0					0.00

[a]El=Ellerslie, En=Enmore, LPJ=Little Pierre Jacques, Mor=Morell, SV=Seal R. (Vernon), TC=Trout R. (Coleman), Ver=Vernon.

[b]ALP=Above Landing Pool, BH=Bannys Hole, C=Cranes, E=Everglades, F=Forks, GR=Gill Road, G=Grants, IB=Indian Bridge, KH=Kennys Hole, LB=Leards Bridge, LC=Lower Cranes, LL=Lower Leards, M=Martinvale, MT=Mooney Tracks, MB=Mooneys Bridge, O=Oates, OC=Old Cardigan III, RR=Rowells Riffle, UK=Upper Kennys.

[c]Sweep 0.5 is a sweep without barrier nets that is conducted alone, or conducted prior to regular Zippin sweeps.

[d]Calculated from Zippin estimate where availble. Otherwise calculated from numbers of eels per sweep and correction factors for the southern Gulf (see Table 18).

Table 27. Densities of eels estimated from electrofishing surveys in southern Gulf of St. Lawrence rivers, and estimated river populations, by decade.

River	River area (m^2)*	1952-1959				1960-1969				1970-1979				1980-1989				1990-1999				2000-2006				1952-2006			
		Eels/100 m^2			Pop.	Eels/100 m^2			Pop.	Eels/100 m^2			Pop.	Eels/100 m^2			Pop.	Eels/100 m^2			Pop.	Eels/100 m^2			Pop.	Eels/100 m^2			Pop.
		Mean	SD	N		Mean	SD	N		Mean	SD	N		Mean	SD	N		Mean	SD	N		Mean	SD	N		Mean	SD	N	
Restigouche R.	22,326,000									0.39	0.79	246	87,673	0.35	1.18	305	78,920	0.20	1.24	205	45,338	1.32	7.00	618	294,345	0.77	4.79	1,374	172,371
Jacquet R.	1,135,000																					4.64	3.84	8	52,607	4.64	3.84	8	52,607
Tabusintac R.	824,300																	0.00	0.00	25	0	0.01	0.05	47	60	0.00	0.04	72	39
Miramichi R.	54,600,000	0.70	0.99	94	381,408	0.68	1.22	145	370,585	1.15	4.08	799	625,179	0.51	1.95	460	279,064	0.50	1.97	479	274,031	0.80	2.93	481	436,287	0.79	2.96	2,458	430,671
Kouchibouguac R.	588,000																	1.90	2.68	2	11,153	0.45	0.93	14	2,639	0.63	1.21	16	3,703
Kouchibouguacis R.	549,000																					0.15	0.51	11	839	0.15	0.51	11	839
Richibucto R.	1,226,000																	0.93	1.77	16	11,456	1.93	2.45	19	23,627	1.47	2.19	35	18,063
Buctouche R.	661,900																	0.51	1.28	42	3,387	0.86	1.62	35	5,705	0.67	1.45	77	4,441
Cocagne R.	283,000																	3.81	2.49	2	10,769	0.79	1.79	11	2,238	1.25	2.11	13	3,550
R. Phillip	962,100													1.44	2.67	5	13,894	0.00	0.00	16	0	0.00	0.00	7	0	0.26	1.17	28	2,481
Wallace R.	622,900									0.35	0.57	6	2,205					0.00	0.00	29	0	1.44	4.33	9	8,984	0.34	1.96	44	2,138
Waugh R.	313,200																					0.00	0.00	2	0	0.00	0.00	2	0
R. John	397,300													0.11	0.16	2	450	1.45	3.96	16	5,755	0.00	0.00	3	0	1.11	3.48	21	4,427
Middle R., Pictou	295,300																	0.00	0.00	9	0					0.00	0.00	9	0
East R., Pictou	729,100									0.37	0.74	4	2,711	0.28	0.36	4	2,055	0.49	2.71	30	3,605	0.00	0.00	13	0	0.34	2.08	51	2,494
Sutherlands R.	66,600													3.89	2.26	3	2,589	0.00	0.00	11	0	0.00	0.00	2	0	0.73	1.77	16	485
French R.	174,000									0.92	1.14	4	1,594					0.00	0.00	8	0					0.31	0.74	12	531
Barneys R.	212,800													0.35	0.50	5	746	0.00	0.00	11	0	0.00	0.00	6	0	0.08	0.27	22	170
West R., Antigonish	480,300									3.51	5.42	4	16,843	3.32	6.53	8	15,940	1.60	4.92	27	7,694	0.00	0.00	12	0	1.64	4.66	51	7,895
South R., Antigonish	95,000																	0.00	0.00	6	0					0.00	0.00	6	0
Pomquet R.	76,900																	0.39	1.72	19	303					0.39	1.72	19	303
Afton R.	18,900																	0.00	0.00	10	0					0.00	0.00	10	0
Tracadie R.	52,500																	0.00	0.00	3	0	0.00	0.00	2	0	0.00	0.00	5	0
Mabou R.	235,100									1.79	1.69	8	4,214					0.09	0.23	6	222	0.41	0.58	2	957	0.98	1.44	16	2,310
Margaree R.	2,797,600	3.10	3.29	24	86,742	2.92	4.72	138	81,592	1.58	2.86	108	44,261	0.65	1.18	17	18,320	0.20	0.51	44	5,537	0.86	6.49	95	24,115	1.76	4.50	426	49,220
Cheticamp R.	322,000																					0.32	0.64	6	1,017	0.32	0.64	6	1,017
Trout R., Coleman																		0.00		1	0					0.00	0.00	1	0
Ellerslie R.																		0.00	0.00	28	0					0.00	0.00	28	0
Morell R.	237,200									12.73	11.43	5	30,198	6.76	8.02	10	16,024	0.81	1.81	76	1,910	1.53	1.92	10	3,626	2.06	4.79	101	4,878
Vernon R.																		0.00	0.00	24	0					0.00	0.00	24	0
Seal R., Vernon																		0.00	0.00	24	0					0.00	0.00	24	0
Enmore R.																		0.00	0.00	32	0					0.00	0.00	32	0
Little Pierre Jacques R.																		0.00	0.00	28	0					0.00	0.00	28	0
Pooled data		1.19	1.96	118		1.77	3.58	283		1.08	3.66	1,184		0.57	2.10	819		0.40	1.77	1,229		1.01	5.27	1,413		0.74	2.85	4,536	
Sum					468,150				452,177				814,878				428,004				381,157				857,045				764,633

*Area of fluvial habitat, from O'Connell et al. 1997

Table 28. Estimated populations and densities of eels at sites on Prince Edward Island, from Bayesian analysis of mark-recapture data.

Location	Year	Sampling dates	Bayesian population estimate				Mean weight (g)	Area within 295 m of gear (ha)[a]	Population density[b]		Pond area (ha)	Estimated pond population[b]
			Median	Mode	5% confidence limit	95% confidence limit			Eels/ha	kg/ha		
Barachois ponds, with an outlet stream to the sea												
Clarkes Pond	2000	12 May-15 Jun, 14 Jul-29 Aug	360	358	332	394	434	15.0	24.0	10.4	15.0	360
Clarkes Pond	2001	13 Jun-7 Aug	156	133	94	300	322	8.4	18.6	6.0	15.0	279
Lake of Shining Waters	2000	1 Jun-13 Aug	221	201	150	354	331	11.0	20.1	6.7	11.0	221
Rollings Pond	2000	12 May-15 Jun, 14 Jul-29 Aug	603	598	538	683	326	2.4	251.3	81.8	2.4	603
Rollings Pond	2001	28 May-7 Aug	318	253	168	718	406	2.4	132.3	53.8	2.4	318
Long Pond, Dalvay	2000	30 May-14 Aug	1,175	1,169	1,067	1,302	296	11.2	104.9	31.0	15.0	1,573
Long Pond, Dalvay	2003	24 Jun-2 Oct	2,071	2,035	1,729	2,521	258	15.0	138.1	35.7	15.0	2,071
Campbells Pond	2000	30 May-14 Aug	657	640	532	834	306	21.9	30.0	9.2	28.7	860
Campbells Pond	2001	22 Aug-18 Sep	347	329	259	490	227	21.9	15.8	3.6	28.7	455
Schooner Pond	2000	26 Jun-8 Jul, 20-28 Aug	394	328	223	826	276	14.0	28.1	7.8	14.0	394
Mean									76.3	24.6		
Freshwater impoundments												
North Pinette Pond	2000	13 Sep-22 Oct	238	165	108	690	622	2.8	84.4	52.5	2.8	238
Estuaries & brackish lagoons												
Flat River	2002	5 Jul-25 Aug	1,458	1,158	762	3,342	372	51.6	28.3	10.5		
South Pinette Estuary	2000	29 Jul-14 Oct	6,250	5,100	3,400	13,350	293	9.5	655.8	192.2		
North Pinette Estuary	2000	9 Aug-4 Oct	1,620	1,492	1,092	2,580	291	9.5	171.2	49.9		
Mean									285.1	84.2		

[a]The 95th percentile of maximum distances between capture and recapture sites of eels in PEI National Park barachois ponds in 2000 and 2003 was 295 m. N = 317. (Cairns unpubl. data)

[b]From Bayesian median

Table 29. Population densities of American eels in northeastern North America

Region	Location	Habitat	Year	Eel density[a]		Approx. min. size counted (cm)	Method	Source
				Number/ ha	kg/ ha			
Labrador	Sand Hill R	River	1971	127.0			Electrofishiing	Fletcher and Anderson 1973
Gulf of St. Lawrence, St. Lawrence River								
Newfoundland, southwest coast	Little Codroy R	River	1956-1963	1,020.0			Electrofishing	Fletcher and Anderson 1973
Quebec, NW Gulf of St. Lawrence	Matamek R	River	1974	132.5	17.9	30	Mark-recapture	Dolan 1975
Quebec, Anticosti I	Bec-Scie River & Castor Brook	River	1988-1996	1,144.3			Electrofishing	Caron and Verreault 1997
Vermont	Lake Champlain	Lake	1979	429.0	26.1		Mark-recapture	LaBar and Facey 1983
Gulf New Brunswick	Restigouche R	River	1972-1979	39.3		10	Electrofishing	Present study
Gulf New Brunswick	Restigouche R	River	1980-1989	35.3		10	Electrofishing	Present study
Gulf New Brunswick	Restigouche R	River	1990-1999	20.3	1.3	10	Electrofishing	Present study
Gulf New Brunswick	Restigouche R	River	2000-2006	131.8	8.6	10	Electrofishing	Present study
Gulf New Brunswick	Tabusintac R	River	1999-2001	0.5	0.0	10	Electrofishing	Present study
Gulf New Brunswick	Miramichi R	River	1952-1959	69.9		10	Electrofishing	Present study
Gulf New Brunswick	Miramichi R	River	1960-1969	67.9		10	Electrofishing	Present study
Gulf New Brunswick	Miramichi R	River	1970-1979	114.5		10	Electrofishing	Present study
Gulf New Brunswick	Miramichi R	River	1980-1989	51.1		10	Electrofishing	Present study
Gulf New Brunswick	Miramichi R	River	1990-1999	50.2	3.3	10	Electrofishing	Present study
Gulf New Brunswick	Miramichi R	River	2000-2006	79.9	5.2	10	Electrofishing	Present study
Gulf New Brunswick	Richibucto R	River	1997-1999	93.4	6.1	10	Electrofishing	Present study
Gulf New Brunswick	Richibucto R	River	2000-2005	192.7	12.6	10	Electrofishing	Present study
Gulf New Brunswick	Buctouche R	River	1996-1999	51.2	3.3	10	Electrofishing	Present study
Gulf New Brunswick	Buctouche R	River	2000-2005	86.2	5.6	10	Electrofishing	Present study
Gulf Nova Scotia	R Phillip	River	1980-1986	144.4		10	Electrofishing	Present study
Gulf Nova Scotia	R Phillip	River	1993-1999	0.0	0.0	10	Electrofishing	Present study
Gulf Nova Scotia	R Phillip	River	2000-2002	0.0	0.0	10	Electrofishing	Present study
Gulf Nova Scotia	Wallace R	River	1978	35.4		10	Electrofishing	Present study
Gulf Nova Scotia	Wallace R	River	1993-1999	0.0	0.0	10	Electrofishing	Present study
Gulf Nova Scotia	Wallace R	River	2000-2002	144.2	9.4	10	Electrofishing	Present study
Gulf Nova Scotia	East R Pictou	River	1978	37.2		10	Electrofishing	Present study
Gulf Nova Scotia	East R Pictou	River	1980	28.2		10	Electrofishing	Present study
Gulf Nova Scotia	East R Pictou	River	1992-1999	49.4	3.2	10	Electrofishing	Present study
Gulf Nova Scotia	East R Pictou	River	2000-2002	0.0	0.0	10	Electrofishing	Present study
Gulf Nova Scotia	West R Antigonish	River	1978	350.7		10	Electrofishing	Present study
Gulf Nova Scotia	West R Antigonish	River	1986-1988	331.9		10	Electrofishing	Present study
Gulf Nova Scotia	West R Antigonish	River	1991-1999	160.2	10.5	10	Electrofishing	Present study
Gulf Nova Scotia	West R Antigonish	River	2000-2002	0.0	0.0	10	Electrofishing	Present study
Gulf Nova Scotia	Margaree R	River	1957-1959	310.1		10	Electrofishing	Present study
Gulf Nova Scotia	Margaree R	River	1960-1969	291.6		10	Electrofishing	Present study
Gulf Nova Scotia	Margaree R	River	1975-1979	158.2		10	Electrofishing	Present study
Gulf Nova Scotia	Margaree R	River	1981-1987	65.5		10	Electrofishing	Present study
Gulf Nova Scotia	Margaree R	River	1991-1999	19.8	1.3	10	Electrofishing	Present study
Gulf Nova Scotia	Margaree R	River	2000-2006	86.2	5.6	10	Electrofishing	Present study
Prince Edward Island	Ellerslie R	River	1993-1995	0.0		10	Electrofishing	Present study
Prince Edward Island	Morell R	River	1975	1,273.1		10	Electrofishing	Present study
Prince Edward Island	Morell R	River	1984-1985	675.5		10	Electrofishing	Present study
Prince Edward Island	Morell R	River	1994-1998	80.5	5.3	10	Electrofishing	Present study
Prince Edward Island	Morell R	River	2001-2002	152.9	10.0	10	Electrofishing	Present study
Prince Edward Island	PEI National Park	Barachois ponds, sea connected	2000-2003	76.3	24.6	40	Mark-recapture	Present study
Prince Edward Island	N. Pinette Pond	Freshwater impoundment	2000	84.4	52.5	40	Mark-recapture	Present study
Prince Edward Island	Flat R estuary	estuary	2002	28.3	10.5	40	Mark-recapture	Present study
Prince Edward Island	S. Pinette estuary	estuary	2000	655.8	192.2	40	Mark-recapture	Present study
Prince Edward Island	N. Pinette estuary	estuary	2000	171.2	49.9	40	Mark-recapture	Present study
Nova Scotia, Gulf drainage	McCormick Lake	Lake	1930s	0.0	0.0		Poisoning, min. estimate	Smith and Saunders 1955
Maritime Provinces, Atlantic-Fundy drainages								
Nova Scotia, southwest	Tedford Lake	Lake	1930s	133.0	2.6		Poisoning, min. estimate	Smith and Saunders 1955
Nova Scotia, southwest	Jesse Lake	Lake	1930s	59.0	0.8		Poisoning, min. estimate	Smith and Saunders 1955
Nova Scotia, Fundy drainage	Boars Back Lake	Lake	1930s	12.0	0.2		Poisoning, min. estimate	Smith and Saunders 1955
Nova Scotia, southwest	Trefrys Lake	Lake	1930s	153.0	2.9		Poisoning, min. estimate	Smith and Saunders 1955
New Brunswick, Fundy drainage	Potters Lake	Lake	1940	52.0	9.0		Poisoning, min. estimate	Smith and Saunders 1955
New Brunswick, Fundy drainage	Bills Lake	Lake	1930s	529.0	79.3		Poisoning, min. estimate	Smith and Saunders 1955
New Brunswick, Fundy drainage	Cooks Lake	Lake	1930s	0.2			Poisoning, min. estimate	Smith and Saunders 1955
New Brunswick, Fundy drainage	Pollet River	River	1947-1952	1,813.9	38.1		Seining, electrofishing	Elson 1962
New England								
Massachusetts	Falmouth	Salt marsh	1979	875.0		15	Mark-recapture	Ford and Mercer 1986
Rhode I	Annaquatucket R	Estuary	1990-1992	3,230.0		16	Electrofishing	Oliveira 1997
Rhode I	Annaquatucket R	River	1990-1992	1,690.0		16	Electrofishing	Oliveira 1997

[a]For electrofishing present study results, numerical densities were converted to weight densities using a mean weight of 65.3 g (SD=134.3, N=182), from electrofishing surveys in New Brunswick and Prince Edward Island, 1994-2002. Lengths were converted to weight by a length-weight formula (Fig. 10).

Table 30. Weekly counts of American eels in fishing gears which intercept upstream or downstream movement, in the southern Gulf of St. Lawrence, 1972-2006. No fishing was conducted where cell is blank.

Region, River, Site[a]	Gear type[b,c]	Direction[d]	Yr	Eels counted in week (week number, start date of week)[e]																																			Sum	Mean[f]	Start and end of counts	Source[g]
				16 16 Apr	17 23 Apr	18 30 Apr	19 7 May	20 14 May	21 21 May	22 28 May	23 4 Jun	24 11 Jun	25 18 Jun	26 25 Jun	27 2 Jul	28 9 Jul	29 16 Jul	30 23 Jul	31 30 Jul	32 6 Aug	33 13 Aug	34 20 Aug	35 27 Aug	36 3 Sep	37 10 Sep	38 17 Sep	39 24 Sep	40 1 Oct	41 8 Oct	42 15 Oct	43 22 Oct	44 29 Oct	45 5 Nov	46 12 Nov	47 19 Nov	48 26 Nov				
Gulf New Brunswick																																										
Restigouche R																																										
Morrissey Rock	ET	Bo	93							0	0	0	0	1	3	0	0	0	0	0	0																		4	0.36	1 Jn-16 Au	Clay96
Mean[f]	ET	Bo	93							0.0	0.0	0.0	0.0	1.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0																		4	0.36		
Adams Shore	ET	Bo	94										0	0	1	0	0	2	0	0	0	0	0	0	0														3	0.25	21 Jn-12 Se	LFN
Adams Shore	ET	Bo	95								2	0	0	0	0	0	0	0	0	0																			2	0.20	6 Jn-12 Au	LFN
Mean	ET	Bo									2.3	0.0	0.0	0.0	0.5	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0														5	0.23		
Dalhousie	ET	Bo	72							0	0	0	0	0	0	0	0	0	0	0	0	0																	0	0.00	29 Ma-5 Au	DFO
Dalhousie	ET	Bo	73				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0											0	0.00	13 Ma-29 Se	DFO
Dalhousie	ET	Bo	74					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0							0	0.00	17 Ma-31 Oc	DFO
Dalhousie	ET	Bo	75				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0							0	0.00	13 Ma-14 Oc	DFO
Dalhousie	ET	Bo	76					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0														0	0.00	13 Ma-28 Au	DFO
Dalhousie	ET	Bo	77				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0															0	0.00	12 Ma-31 Au	DFO
Dalhousie	ET	Bo	78				0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0															1	0.06	11 Ma-31 Au	DFO
Dalhousie	ET	Bo	79				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0															0	0.00	11 Ma-31 Au	DFO
Dalhousie	ET	Bo	80				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0															0	0.00	11 Ma-31 Au	DFO
Mean	ET	Bo					0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1	0.01		
Butters	RS5	Dn	02							121	100	110	36	12	18	13	8	8																					426	50.5	31 Ma-28 Jl	LFN
Butters	RS5	Dn	03					10	13	42	74	19	26																										184	31.4	14 Ma-23 Jn	LFN
Butters	RS5	Dn	04				0	80	84	127	224	101																											616	119.8	13 Ma-17 Jn	LFN
Butters	RS5	Dn	05					2	40	165	100	42																											349	81.4	18 Ma-1[illegible] Jn	LFN
Butters	RS5	Dn	06				9	47	18	102	33	14																											223	43.4	12 Ma-1[illegible] Jn	LFN
Mean	RS5	Dn					15.8	40.5	38.8	122	106	62.6	33.4	12.0	18.0	13.0	8.0	9.3																					1,798	62.3		
Moses	RS5	Dn	02							8	8	9	6																										31	10.3	31 Ma-20 Jn	LFN
Moses	RS5	Dn	03					4	10	17	45	35	42																										153	27.5	16 Ma-23 Jn	LFN
Moses	RS5	Dn	04				1	8	9	19	55	19																											111	21.6	13 Ma-17Jn	LFN
Moses	RS5	Dn	05					0	2	66	23	6																											97	22.6	18 Ma-16 Jn	LFN
Moses	RS5	Dn	06				0	4	10	13	11	7																											45	9.0	12 Ma-15 Jn	LFN
Mean	RS5	Dn					2.3	5.1	7.8	26.9	28.4	16.6	37.3																											437	19.0		
Kedgwick	RS5	Dn	02				0	0	4	21	16	26	4																											71	11.6	8 Ma-19 Jn	F-R
Kedgwick	RS8	Dn	03				1	0	4	15	42	32	47																											141	23.5	9 Ma-19 Jn	F-R
Kedgwick	RS8	Dn	04			0	1	2	3	8	75	74																											163	27.2	6 Ma-16 Jn	F-R
Kedgwick	RS8	Dn	05					0	1	22	45	20																											88	22.0	19 Ma-15 Jn	F-R
Kedgwick	RS8	Dn	06				0	1	4	16	34	3																											58	11.6	9 Ma-12 Jn	F-R
Mean	RS	Dn				0.0	0.6	0.7	3.2	16.4	42.4	40.2	89.3																											521	19.2		
Upsalquitch	RS5	Dn	04						0	18	105	33																											156	49.6	27 Ma-15Jn	ERB
Upsalquitch	RS5	Dn	05						3	110	22	19																											823	185.8	28 Ma-17 Jn	ERB
Mean	RS5	Dn						0.0	2.6	64.0	63.5	26.0																											979	129.3		
Mean Restigouche RS	RS	Dn				0.0	2.8	14.0	14.5	55.1	59.5	37.9	43.3	12.0	18.0	13.0	8.0	9.3																					3,735	43.1		
Tabusintac R																																										
Site 1	ET	Up	92																											0	0	2							2	1.00	14 Oc-27 Oc	Clay96
Site 1 (marking trap)	ET	Up	93																9	13	11	10	9	8	0	1	2	0	0	0								63	5.25	6 Au-28 Oc	Clay96
Site 1 (marking trap)	ET	Up	94																		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0.00	22 Au-9 No	DFO
Site 1 (marking trap)	ET	Up	96																							0	0	0	0	0	0							0	0.00	26 Se-3No	DFO
Site 1 (marking trap)	ET	Up	98																						1	15	1	2	4	0	0							23	4.03	22 Se-31 Oc	DFO
Site 1 (marking trap)	ET	Up	99																			1	1	17	12	9	4	7	5	5	1	0						62	12.06	26 Se-31 Oc	DFO
Site 1 (marking trap)	ET	Up	02																						2	7	19	21	5	1	0	0						55	7.55	19 Se-8 No	BC
Mean	ET	Up																	9.0	13.0	7.0	5.5	13.0	10.0	4.0	5.0	4.8	4.6	2.0	0.6	0.0	0.0						205	4.17		
Site 2 (recap. trap)	ET	Up	93																2	2	0	1	3	0	2	0	0	1	0	1	0							12	0.93	31 Jl-28 Oc	Clay96
Site 2 (recap. trap)	ET	Up	94																			1	0	0	0	0	1	0	0	0	0	0	1						3	0.26	22 Au-9 No	DFO
Site 2 (recap. trap)	ET	Up	96																							0	0	0	0	0	0							0	0.00	26 Se-3No	DFO
Site 2 (recap. trap)	ET	Up	98																						1	4	1	0	0	0	0							6	1.05	22 Se-31 Oc	DFO
Site 2 (recap. trap)	ET	Up	99																			0	3	1	2	2	1	2	1	1	0	0						13	2.53	26 Se-31 Oc	DFO
Site 2 (recap. trap)	ET	Up	02																							0	0	0	5	7	0	0	0					12	1.65	19 Se-8 No	BC
Mean	ET	Up																	2.3	2.0	0.0	1.2	3.0	0.5	2.0	1.0	1.1	0.7	1.0	1.5	0.0	0.0	0.8					46	0.96		
Mean Tabusintac ET	ET	Up																	2.3	5.5	6.5	4.1	4.3	6.8	6.0	2.2	2.4	1.2	1.1	1.4	0.2	0.0	0.4					251	2.58		

Table 30 (continued)

Region, River, Site[a]	Gear type[bc]	Direction[d]	Yr	Eels counted in week (week number, start date of week)[e]																																				Sum	Mean[f]	Start and end of counts	Source[g]
				16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48					
				16 Apr	23 Apr	30 Apr	7 May	14 May	21 May	28 May	4 Jun	11 Jun	18 Jun	25 Jun	2 Jul	9 Jul	16 Jul	23 Jul	30 Jul	6 Aug	13 Aug	20 Aug	27 Aug	3 Sep	10 Sep	17 Sep	24 Sep	1 Oct	8 Oct	15 Oct	22 Oct	29 Oct	5 Nov	12 Nov	19 Nov	26 Nov					
Miramichi R																																										
Millbank	ET	Bo	76			0	4	1	0	0	2	3	5	6	9	8	17	5	5	2	1	0	0	1	0	2	1	0	0	0	0	0						72	2.70	2 Ma-4 No	Clay96
Millbank	ET	Bo	77			0	2	7	3	0	2	2	2	0	3	4	1	4	3	0	0	0	0	0	1	0	2	1	0	0	0	0						38	1.45	5 Ma-4 No	Clay96
Millbank	ET	Bo	78					4	1	1	1	0	2	4	3	1	1	1	0	0	0	0	0	0	1	0	3	0	0	0	0	0						23	0.93	15 Ma-3 No	Clay96
Millbank	ET	Bo	79			0	0	4	1	2	1	2	2	12	5	2	4	0	0	3	4	1	0	1	1	3	0	0	0	0	0	0						48	1.84	2 Ma-31 Oc	Clay96
Millbank	ET	Bo	80			0	0	0	0	1	0	0	6	0	2	1	0	1	0	1	0	0	0	0	0	0	5	0	0	0	0	0						20	0.76	3 Ma-3 No	Clay96
Millbank	ET	Bo	81			1	2	2	0	1	2	5	3	2	8	3	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0						31	1.16	30 Apr-2 No	Clay96
Millbank	ET	Bo	82			0	0	0	0	0	0	0	1	1	21	6	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0						33	1.28	6 Ma-1 No	Clay96
Millbank	ET	Bo	83			0	0	1	0	0	1	0	2	6	4	4	2	4	0	1	0	0	0	0	0	0	0	0	1	0	0	0						26	1.03	6 Ma-28 Oc	Clay96
Millbank	ET	Bo	84				0	0	1	0	0	1	3	4	10	12	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0						34	1.34	12 Ma-29 Oc	Clay96
Millbank	ET	Bo	85					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	2	0	1	0	0							0	0.00	14 Ma-7 No	Clay96
Millbank	ET	Bo	86				0	1	2	0	0	0	0	3	2	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0							17	0.71	10 Ma-24 Oc	Clay96
Millbank	ET	Bo	87					0	2	1	1	1	1	1	4	10	3	0	0	0	0	0	0	0	0	0	0	0	0	0							24	1.05	15 Ma-15 Oc	Clay96
Millbank	ET	Bo	88					0	1	0	1	1	0	1	1	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0							10	0.44	16 Ma-15 Oc	Clay96
Millbank	ET	Bo	89					1	1	2	1	2	4	3	2	2	0	0	0	0	0	0	0	0	0	0	0	2	0	0							18	0.82	16 Ma-16 Oc	Clay96
Millbank	ET	Bo	90					0	0	0	3	0	3	5	4	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0							20	0.91	16 Ma-16 Oc	Clay96
Millbank	ET	Bo	91					0	0	0	1	0	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0							5	0.21	15 Ma-25 Oc	Clay96
Millbank	ET	Bo	92					0	0	0	1	0	1	0	1	1	0	1	1	0	1	0	0	0	0	0	0	0	0	0	0							7	0.31	21 Ma-23 Oc	Clay96
Mean	ET	Bo		0.3	1.0	1.4	0.7	0.5	1.0	1.0	2.2	2.8	4.7	3.6	2.1	0.9	0.6	0.5	0.5	0.1	0.0	0.1	0.2	0.8	0.6	0.2	0.1	0.0	0.0	0.0	0.0							426	1.02		
NW Enclosure	ET	Bo	85					13	8	1	0	6	7	25	24	22	11	11	0	3	4	1	0	1	0	1	3	2	25	3	2	0						173	6.96	15 Ma-4 No	Clay96
NW Enclosure	ET	Bo	86							2	2	1	10	8	7	6	2	4	0	0	10	4	1	3	6	4	15	8	0	0	0							93	4.25	29 Ma-28 Oc	Clay96
NW Enclosure	ET	Bo	87						2	4	6	2	13	6	2	2	0	1	1	2	0	2	5	2	2	3	6	3	0	0							64	2.95	22 Ma-20 Oc	Clay96
Mean	ET	Bo						15.2	5.4	2.5	2.7	3.0	10.0	13.0	11.0	10.0	4.3	5.3	0.3	1.7	4.7	2.3	2.0	2.0	2.7	2.7	8.0	4.3	8.3	1.1	1.0	0.0							330	4.82		
NW Eel Ground-FF	ET	Bo	94							0	0	0	0	1	1	9	0	8	5	3	0	0	4	0	0	0												31	1.92	30 Ma-19 Se	Hay01
NW Eel Ground-FF	ET	Bo	95							0	2	1	0	0	5	5	4	1	4	3	4	3	1	0														33	2.36	31 Ma-5 Se	Hay01
NW Eel Ground-FF	ET	Bo	97										1	4	3	15	6	3	0	1	4	0	0	0														37	3.16	18 Jn-7 Se	Hay01
Mean	ET	Bo								0.0	1.0	0.5	0.3	1.7	3.0	9.7	3.3	4.0	3.0	2.3	2.7	1.0	1.7	0.0	0.0	0.0												101	2.41		
NW Eel Ground-I	ET	Bo	92				0	0	3	1	2	0	1	5	3	3	12	3	3	1	0	0	2	0	0	1	2	0	0	1	1							44	1.81	18 Ma-3 No	Clay96
NW Eel Ground-I	ET	Bo	93				0	1	1	0	0	2	1	0	0	6	1	2	0	1	0	0	0	0	0	0	0	1	0	0							16	0.72	19 Ma-21 Oc	Clay96
NW Eel Ground-I	ET	Bo	94						0	0	3	4	4	3	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0							16	0.77	30 Ma-15 Oc	Hay01
NW Eel Ground-I	ET	Bo	95						0	0	0	2	3	3	0	1	2	0	0	1	1	0	1	1	0	0	0	0	0	0							15	0.74	2 Jn-15 Oc	Hay01
NW Eel Ground-I	ET	Bo	96								6	5	18	11	17	8	10	4	1	3	2	0	1	4	9	6	9	3	1								118	6.40	12 Jn-18 Oc	Hay01
NW Eel Ground-I	ET	Bo	97									1	4	1	10	10	4	2	5	0	1	0	2	1	0	2	0	0	0								43	2.47	18 Jn-17 Oc	Hay01
NW Eel Ground-I	ET	Bo	98							0	1	0	0	0	1	3	1	1	0	1	0	0	3	0	0	0	0	0									12	0.71	18 Jn-12 Oc	Hay01
NW Eel Ground-I	ET	Bo	99									0	0	8	1	0	1	2	0	0	1	0															13	1.26	11 Jn-21 Au	Hay01
NW Eel Ground-I	ET	Bo	00							0	1	0	3	4	2	5	2	1	5	2	1	0	2	0	1	0												29	1.81	3 Jn-22 Se	DFO
NW Eel Ground-I	ET	Bo	02										0	3	4	0	0	0	0	0																	7	1.11	25 Jn-7 Au	DFO
NW Eel Ground-I	ET	Bo	03										1	0	8	4	0	2	0	0	0																15	1.91	20 Jn-13 Au	DFO
Mean	ET	Bo						0.0	0.5	1.6	0.4	1.6	1.9	4.0	3.6	4.2	2.9	3.1	1.5	1.1	1.0	0.5	0.3	1.1	0.9	1.1	1.3	1.7	0.4	0.2	1.0	1.2						328	1.82		
NW Eel Ground-H	ET	Bo	95							0	0	0	0	0	0	1	0	0	0	0	0	1	0															2	0.14	28 Ma-1 Se	Hay01
NW Eel Ground-H	ET	Bo	96							2	0	0	0	0	0	0	1	0	0	0	0	1	0	0	2	0	2	0										8	0.47	12 Jn-7 Oc	Hay01
Mean	ET	Bo								0.0	0.0	1.1	0.0	0.0	0.0	0.5	0.0	0.5	0.0	0.0	0.0	1.0	0.0	0.0	2.0	0.0	2.0	0.0										10	0.33		
Hacketts Beach	ET	Bo	99		0	0	0	0	2	0	0	0	3	3	1	1	0	0	2	0	0	1	0	1	0	0	1	1	0	0								16	0.64	6 Ma-26 Oc	Hay01
Hacketts Beach	ET	Bo	00			0	0	0	0	1	0	0																										1	0.16	8 Ma-20 Jn	DFO
Mean	ET	Bo			0.0	0.0	0.0	0.0	1.0	0.5	0.0	0.0	3.0	3.0	1.0	1.0	0.0	0.0	2.0	0.0	0.0	1.0	0.0	1.0	0.0	0.0	1.0	1.0	0.0	0.0								17	0.55		
Cassilis	ET	Bo	98										11	13	5	12	7	9	9	6	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	75	3.48	15 Jn-12 No	Hay01
Cassilis	ET	Bo	99									0	1	3	3	4	1	2	0	1	2	1	0	0	1	2	1	0	0	0	0	0	0	0	0	0	0	19	0.99	10 Jn-15 Oc	Hay01
Cassilis	ET	Bo	00										0	3	5	11	8	5	3	1	0	0	1	2	1	0	0	0	0	0	0	0	0	0	0	0	0	40	2.19	15 Jn-20 Oc	DFO
Cassilis	ET	Bo	01										4	6	1	2	5	1	1	0	0	0	0	1	0	0	1	0	1	0	1	0	0	0	0	0	0	24	1.25	15 Jn-26 Oc	DFO
Cassilis	ET	Bo	02										0	18	10	10	7	0	3	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	51	2.77	17 Jn-23 Oc	DFO
Cassilis	ET	Bo	03										1	3	3	5	2	3	2	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22	1.36	13 Jn-3 Oc	DFO
Cassilis	ET	Bo	04										1	6	3	2	15	7	0	3	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	39	2.08	14 Jn-23 Oc	DFO
Cassilis	ET	Bo	05										2	5	12	22	10	0	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	53	3.02	15 Jn-15 Oc	DFO
Cassilis	ET	Bo	06									9	9	3	11	7	3	4	2	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	49	2.52	7 Jn-20 Oc	DFO
Mean	ET	Bo										12.6	5.8	6.7	5.9	8.3	5.4	3.4	2.3	1.4	0.3	0.3	0.3	0.7	0.2	0.2	0.1	0.0	0.2	0.0	0.1	0.0	0.0	0.0	0.0			372	2.21		

Table 30 (continued)

Region, River, Site[a]	Gear type[bc]	Direction[d]	Yr	Eels counted in week (week number, start date of week)[e]																																	Sum	Mean[f]	Start and end of counts	Source[g]
				16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48				
				16 Apr	23 Apr	30 Apr	7 May	14 May	21 May	28 May	4 Jun	11 Jun	18 Jun	25 Jun	2 Jul	9 Jul	16 Jul	23 Jul	30 Jul	6 Aug	13 Aug	20 Aug	27 Aug	3 Sep	10 Sep	17 Sep	24 Sep	1 Oct	8 Oct	15 Oct	22 Oct	29 Oct	5 Nov	12 Nov	19 Nov	26 Nov				
Cassilis	ETS	Bo	98				0	3	13	14	7	4																								41	7.97	11 Ma-15 Jn	Hay01
Cassilis	ETS	Bo	99				0	0	11	5	1																									17	3.84	11 Ma-10 Jn	Hay01
Cassilis	ETS	Bo	00				0	4	6	2	3	2																								17	3.40	12 Ma-15 Jn	NSPA
Cassilis	ETS	Bo	01				5	1	0	7	3	6																								22	4.28	11 Ma-15 Jn	NSPA
Cassilis	ETS	Bo	02			0	0	3	2	3	5	5																								18	2.93	6 Ma-17 Jn	NSPA
Cassilis	ETS	Bo	03				0	0	0	0	14	0	0																								14	2.58	12 Ma-18Jn	DFO
Cassilis	ETS	Bo	04				0	0	1	2	7	0																								10	1.94	10 Ma-14 Jn	DFO
Cassilis	ETS	Bo	05					0	0	4	2	2																								8	1.81	15 Ma-14 Jn	DFO
Cassilis	ETS	Bo	06				2	4	24	11	1																									42	10.50	11 Ma-7 Jn	DFO
Mean	ETS	Bo				0.0	1.8	1.7	6.3	5.3	5.0	3.6	0.0																								189	4.21		
Red Bank, NW	ET	Bo	94												1	4	5	5	1	3	1	0	0	1	0	0	1	0	0							22	1.52	6 Jl-14 Oc	Hay01
Red Bank, NW	ET	Bo	95								0	2	0	2	10	8	0	0	1	0	1	0	0	0	0	0	0	0	0							24	1.28	6 Jn-13 Oc	Hay01
Red Bank, NW	ET	Bo	96									41	9	12	7	13	0	7	11	14	2	2	0	0	2	0	0	0	0	0						120	6.46	11 Jn-18 Oc	Hay01
Red Bank, NW	ET	Bo	97										0	2	0	0	2	3	2	1	0	2	0	1	0	1	0	0	0	0						14	0.78	18 Jn-15 Oc	Hay01
Red Bank, NW	ET	Bo	98									0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0								0	0.00	10 Jn-2 Oc	Hay01
Red Bank, NW	ET	Bo	99							0	2	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0							3	0.16	2 Jn-14 Oc	Hay01
Red Bank, NW	ET	Bo	00								0	0	0	0	1	1	0	0	3	0	0	0	0	0	0	0	0	0								5	0.26	5 Jn-5 Oc	DFO
Red Bank, NW	ET	Bo	01										0	0	0	2	0	1	0	0	0	0	0	0	0	0	0	0	0							3	0.18	19 Jn-11 Oc	DFO
Red Bank, NW	ET	Bo	02												0	3	1	0	1	0	0	0	0	0	0	0	0	0								5	0.38	2 Jl-2 Oc	DFO
Red Bank, NW	ET	Bo	03										2	0	0	1	0	0	0																	3	0.53	22 Jn-31 Jl	DFO
Mean	ET	Bo								0.0	0.7	8.6	1.5	2.0	2.0	3.2	0.8	1.7	2.0	2.0	0.4	0.4	0.0	0.2	0.2	0.1	0.1	0.0	0.0	0.0						199	1.24		
Red Bank, Little SW	ET	Bo	94															1	0	0	0	0	0	0	0	0	0	0								1	0.09	26 Jl-14 Oc	Hay01
Red Bank, Little SW	ET	Bo	95									0	1	2	0	6	0	0	0	0	0	0	0	0	0	0	0	0								9	0.52	15 Jn-13 Oc	Hay01
Red Bank, Little SW	ET	Bo	96									13	22	10	5	17	0	9	12	20	1	1	5	4	0	5	0	0	0	0						124	6.89	15 Jn-18 Oc	Hay01
Red Bank, Little SW	ET	Bo	97										0	0	1	0	0	5	1	2	0	1	0	0	0	3	0	0	0	0						13	0.73	19 Jn-15 Oc	Hay01
Red Bank, Little SW	ET	Bo	98									0	0	1	1	4	3	4	0	2	1	0	0	0	0	0	0	0								16	0.93	16 Jn-14 Oc	Hay01
Red Bank, Little SW	ET	Bo	99								1	1	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0							5	0.26	31 Ma-14 Oc	Hay01
Red Bank, Little SW	ET	Bo	00									1	0	0	0	1	3	0	0	3	0	1	0	0	0	0	0	0	0							9	0.51	5 Jn-5 Oc	DFO
Red Bank, Little SW	ET	Bo	01										1	2	0	13	3	1	0	0	0	0	0	2	0	0	0	0	0							22	1.34	19 Jn-11 Oc	DFO
Red Bank, Little SW	ET	Bo	02											1	10	1	0	3	1	1	0	0	0	0	0	1	0	0	0	0						18	1.11	26 Jn-17 Oc	DFO
Red Bank, Little SW	ET	Bo	03										1	0	5	1	5	0	0	0	0	0	0	0	0	0	0	0	0							12	0.76	22 Jn-9 Oc	DFO
Red Bank, Little SW	ET	Bo	04								0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0								3	0.18	10 Jn-7 Oc	DFO
Mean	ET	Bo								1.8	1.0	3.1	3.1	1.6	2.7	4.5	1.1	2.2	1.5	2.3	0.5	0.2	0.5	0.5	0.0	0.8	0.0	0.0	0.0	0.0						232	1.26		
Little SW at Catamaran	RS5	Dn	00			1	0	4	8	8	2	0	6	1																						30	3.89	5 Ma-27 Jn	DFO
Little SW at Catamaran	RS5	Dn	01				20	5	47	13	4	3																								92	16.95	9 Ma-15 Jn	DFO
Little SW at Catamaran	RS5	Dn	02			0	3	5	28	36	26	14	0																							112	17.04	4 Ma-18 Jn	DFO
Little SW at Catamaran	RS5	Dn	03				0	1	2	1	1	1																								6	1.17	9 Ma-13 Jn	DFO
Little SW at Catamaran	RS5	Dn	04			0	2	3	0	0	1	0																								6	1.08	4 Ma-11 Jn	DFO
Little SW at Catamaran	RS5	Dn	05			2	0	0	0	1	3	0																								6	0.98	3 Ma-14 Jn	DFO
Little SW at Catamaran	RS5	Dn	06			2	2	2	1	1	0																									8	1.81	5 Ma-4 Jn	DFO
Mean	RS5	Dn				2.5	4.2	2.9	12.3	8.6	6.0	4.7	5.3	2.3																							260	6.34		
Little SW, Sillikers	RS6	Dn	05			0	10	6	11	33	67																									127	25.40	6 Ma-9Jn	DFO
Little SW, Sillikers	RS6	Dn	06				10	27	20	12	0																									69	17.89	9 Ma-4 Jn	DFO
Mean	RS6	Dn				0.0	11.7	16.5	15.5	22.5	67.0																									196	22.13		
Catamaran Brook	FF	Up	90				0	0	0	0	0	0	0	0	1	0	3	0	0	0	0	1	0	0	0	0	0	0	0	0	0					5	0.21	8 Ma-24 Oc	Clay96
Catamaran Brook	FF	Up	91				0	0	1	0	0	1	4	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				8	0.30	10 Ma-11 No	Clay96
Catamaran Brook	FF	Up	92				0	0	1	2	0	3	5	4	2	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			21	0.78	10 Ma-14 No	Clay96
Catamaran Brook	FF	Up	93				0	0	0	0	0	0	0	1	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				4	0.15	7 Ma-8 No	Clay96
Catamaran Brook	FF	Up	94				0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			1	0.04	11 Ma-17 No	Har98
Catamaran Brook	FF	Up	95					0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0				1	0.04	10 Ma-8 No	Har98
Catamaran Brook	FF	Up	96				0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				2	0.08	10 Ma-10 No	Har98
Catamaran Brook	FF	Up	97					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0.00	21 Ma-19 No	DFO
Catamaran Brook	FF	Up	98				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0.00	14 Ma-13 No	DFO
Catamaran Brook	FF	Up	99				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0.00	7 Ma-12 No	DFO
Catamaran Brook	FF	Up	00							0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		1	0.04	24 Ma-15 No	DFO
Catamaran Brook	FF	Up	01							0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0.00	30 Ma-14 No	DFO
Catamaran Brook	FF	Up	02				0	0	0	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0.11	8 Ma-19 No	DFO
Catamaran Brook	FF	Up	03				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					0	0.00	11 Ma-27 Oc	UNB
Catamaran Brook	FF	Up	04				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0.00	8 Ma-16 No	UNB
Catamaran Brook	FF	Up	05				0	0	0	1	0	0	0	2	1												0									4	0.48	10 Ma-27 Se	UNB
Catamaran Brook	FF	Up	06			0	0	0	0	0	1	0	0																							1	0.15	3 Ma-21 Jn	UNB
Mean[g]	FF	Up					0.0	0.0	0.1	0.2	0.0	0.3	0.6	0.5	0.3	0.1	0.5	0.1	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		46	0.12		

Table 30 (continued)

Region, River, Site[a]	Gear type[bc]	Direction[d]	Yr	Eels counted in week (week number, start date of week)[e]																																			Sum	Mean[f]	Start and end of counts	Source[g]
				16 16 Apr	17 23 Apr	18 30 Apr	19 7 May	20 14 May	21 21 May	22 28 May	23 4 Jun	24 11 Jun	25 18 Jun	26 25 Jun	27 2 Jul	28 9 Jul	29 16 Jul	30 23 Jul	31 30 Jul	32 6 Aug	33 13 Aug	34 20 Aug	35 27 Aug	36 3 Sep	37 10 Sep	38 17 Sep	39 24 Sep	40 1 Oct	41 8 Oct	42 15 Oct	43 22 Oct	44 29 Oct	45 5 Nov	46 12 Nov	47 19 Nov	48 26 Nov				
Catamaran Brook	FF	Dn	90				0	0	0	1	1	3	4	2	5	4	1	0	3	0	1	1	0	0	7	0	1	0	0	0	0							34	1 40	8 Ma-24 Oc	Clay96
Catamaran Brook	FF	Dn	91				0	0	0	1	2	4	3	3	0	0	0	0	0	2	1	11	6	1	0	5	0	0	0	0	0	0						39	1 47	10 Ma-11 No	Clay96
Catamaran Brook	FF	Dn	92				0	0	1	0	0	0	6	6	0	13	5	18	6	1	1	0	0	0	0	0	1	0	0	0	0	0	0					58	2 15	10 Ma-14 No	Clay96
Catamaran Brook	FF	Dn	93				0	0	0	2	1	1	0	6	2	2	0	0	0	0	0	0	0	1	0	0	3	0	3	0	0	0	0					21	0 79	7 Ma-8 No	Clay96
Catamaran Brook	FF	Dn	94				0	0	0	1	7	5	2	1	1	3	2	0	0	0	0	0	0	4	1	0	0	1	0	0	2	0	0	0				30	1 10	11 Ma-17 No	Har98
Catamaran Brook	FF	Dn	95				0	2	4	11	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	1	0	0	0	0					21	0 80	10 Ma-8 No	Har98
Catamaran Brook	FF	Dn	96				0	5	5	6	7	19	19	3	0	2	19	9	1	0	0	1	1	2	2	2	0	2	2	0	0	0	0					107	4 05	10 Ma-10 No	Har98
Catamaran Brook	FF	Dn	97					0	0	1	2	3	7	4	2	0	0	4	3	2	2	4	0	2	12	11	0	1	1	0	0	0	0					61	2 31	19 Ma-19 No	DFO
Catamaran Brook	FF	Dn	98				1	1	4	3	3	3	2	2	11	3	6	5	0	0	1	3	5	3	0	0	1	0	0	0	0	0	0					57	2 16	13 Ma-13 No	DFO
Catamaran Brook	FF	Dn	99				0	0	0	1	0	0	0	1	0	2	0	0	0	1	4	0	0	1	3	2	0	0	0	0	0	0	0					15	0 55	7 Ma-12 No	DFO
Catamaran Brook	FF	Dn	00			0	0	0	0	5	0	0	0	1	2	0	0	0	1	0	1	9	0	0	0	0	0	0	0	0	0						19	0 68	3 Ma-15 No	DFO
Catamaran Brook	FF	Dn	01				0	0	0	3	0	1	0	0	1	0	1	0	0	0	0	0	3	2	0	0	0	0	0	0	0	0	0	0				11	0 41	10 Ma-14 No	DFO
Catamaran Brook	FF	Dn	02				0	0	1	2	0	2	0	0	1	1	5	0	0	0	0	0	1	0	0	0	1	3	0	2	0	0	0	0	0			19	0 68	8 Ma-19 No	DFO
Catamaran Brook	FF	Dn	03				0	0	0	0	0	0	0	0	0	0	0	1	4	0	1	0	0	0	0	0	0	0	0	2	0							8	0 34	11 Ma-27 Oc	UNB
Catamaran Brook	FF	Dn	04				0	0	0	0	0	0	2	0	0	0	1	0	0	0	0	0	0	5	0	0	0	0	0	2	1	0	0	0				11	0 40	8 Ma-16 No	UNB
Catamaran Brook	FF	Dn	05				1	0	0	0	0	0	0	0	0												0	1										1	0 12	10 Ma-27 Se	UNB
Catamaran Brook	FF	Dn	06			2	0	2	0	1	0	0	2																									7	1 02	3 Ma-21 Jn	UNB
Mean[h]	FF	Dn				0 0	0 1	0 6	1 0	2 5	1 6	2 7	3 0	1 9	1 7	2 0	2 7	2 5	1 2	0 4	0 8	1 9	1 1	1 4	1 7	1 5	0 5	0 5	0 5	0 4	0 2	0 0	0 0	0 0	0 0				492	1 24		
SW Enclosure	ET	Bo	85					1	5	22	3	2	5	19	42	49	20	12	6	8	5	2	1	1	0	9	5	1	2	1	1	0	0					222	8 88	17 Ma-7 No	Clay96
SW Enclosure	ET	Bo	86							0	0	2	0	1	2	3	0	1	3	10	2	0	2	4	4	2	3	0	0	0	0	0						39	1 74	28 Ma-31 Oc	Clay96
SW Enclosure	ET	Bo	87							1	1	3	2	6	2	3	1	0	1	7	1	2	3	4	4	1	3	0	0	0	0	0						45	2 14	29 Ma-22 Oc	Clay96
Mean	ET	Bo						1 8	5 0	8 1	1 3	2 3	2 3	8 7	15 3	18 3	7 0	4 3	3 3	8 3	2 7	1 3	2 0	3 0	2 7	4 0	3 7	0 3	0 7	0 3	0 5	0 0	0 0					306	4 47		
SW Eel Ground-E	ET	Bo	92							4	7	0	3	1	2	1	5	6	12	8	3	3	6	2	4	5	7	1	0	0	0							80	3 71	28 Ma-25 Oc	Clay96
SW Eel Ground-E	ET	Bo	93				0	0	0	0	0	1	0	0	4	5	3	5	7	6	0	0	1	0	1	2	0	0	0	0							35	1 54	12 Ma-17 Oc	Clay96
SW Eel Ground-E	ET	Bo	94							0	1	2	3	6	13	8	1	1	0	0	0	1	1	1	1	2	1	0	1	0								43	2 18	3 Jn-18 Oc	Hay01
SW Eel Ground-E	ET	Bo	95						0	5	7	2	12	5	8	1	0	0	0	1	1	0	1	3	0	3	1	0	0	0								50	2 36	25 Ma-19 Oc	Hay01
SW Eel Ground-E	ET	Bo	96								3	2	1	0	3	0	0	0	0	0	2	0	0	0	0	0	0	0										11	0 62	12 Jn-14 Oc	Hay01
SW Eel Ground-E	ET	Bo	97								2	19	2	14	29	13	44	21	12	18	9	15	12	7	3													220	15 71	16 Jn-21 Se	Hay01
SW Eel Ground-E	ET	Bo	98							0	2	0	0	5	13	2	5	6	0	0	1	1	2	1	3	0												41	2 59	31 Ma-18 Se	Hay01
SW Eel Ground-E	ET	Bo	99								1	0	0	0	0	3	1	0	0	1	0	1	0	0	0	0	0	0	0	0	0							7	0 36	9 Jn-15 Oc	Hay01
SW Eel Ground-E	ET	Bo	00							0	0	1	2	2	6	1	0	2	4	5	1	0	1	0	0	0	0											25	1 43	30 Ma-28 Se	DFO
SW Eel Ground-E	ET	Bo	01											1	2	1	5	2	6	0	0	0	0	1	0	0												18	1 42	25 Jn-21 Se	DFO
SW Eel Ground-E	ET	Bo	02								0	0	0	0	17	17	13	6	4	3	4	3	0	9	6	0	2											84	5 16	5 Jn-26 Se	DFO
SW Eel Ground-E	ET	Bo	03										1	0	8	6	2	0	2	0	0	1	1	0	0	2	0	0										23	1 53	20 Jn-2 Oc	DFO
SW Eel Ground-E	ET	Bo	04											0	3	3	1	0	0	0	0	0	0	0	1	1	0											9	0 67	29 Jn-30 Se	DFO
SW Eel Ground-E	ET	Bo	05											0	0	2	1																					3	1 00	29 Jn-19 Jl	DFO
SW Eel Ground-E	ET	Bo	06											0	3	7	1	0	1	0	0	0	0	0														12	1 14	25 Jn-6 Se	DFO
Mean	ET	Bo					0 0	0 0	0 0	2 0	2 5	1 2	3 9	1 7	6 2	5 9	3 5	5 1	4 1	2 6	2 0	1 5	2 0	2 1	1 8	1 5	1 2	0 2	0 2	0 0	0 0							661	2 75		
SW Eel Ground-FF	ET	Bo	95										0	4	2	1	3	5	1	1	5	3	1	0														26	2 39	21 Jn-4 Se	Hay01
SW Eel Ground-FF	ET	Bo	96								0	53	11	10	3	19																						96	18 67	10 Jn-15 Jl	Hay01
SW Eel Ground-FF	ET	Bo	97										1	0	1	3	11	9	0	2	1	1	0	0	0	1	0	0	0									30	1 76	18 Jn-14 Oc	Hay01
SW Eel Ground-FF	ET	Bo	98							8	4	1	0	0	5	4	2	3	0	0	6	2	1	0	1	1	0	0	0									38	2 05	2 Jn-9 Oc	Hay01
SW Eel Ground-FF	ET	Bo	99							0	2	3	0	1	0	0	0	0	0	1	0	0	0	0	1													8	0 64	1 Jn-27 Au	Hay01
SW Eel Ground-FF	ET	Bo	00							0	1	0	2	0	3	0	3	0	1	0	1	0	2	0	0	0	0											13	0 76	3 Jn-29 Se	DFO
SW Eel Ground-FF	ET	Bo	01											4	2	0	2	1	6	5	0	0	0	1	0	0	0	0	1									22	1 41	26 Jn-12 Oc	DFO
SW Eel Ground-FF	ET	Bo	02							0	0	0	0	0	21	27	11	13	2	1	1	1	0	0														77	5 80	3 Jn-3 Se	DFO
SW Eel Ground-FF	ET	Bo	03										0	2	9	5	3	5	3	0	0	0																27	2 82	20 Jn-25 Au	DFO
SW Eel Ground-FF	ET	Bo	04											0	7	2	2	2	0	0	0	1	0	0	0	0	0											14	1 04	29 Jn-30 Se	DFO
SW Eel Ground-FF	ET	Bo	05											0	5	7	1	4	2	0	0	0	0	0														19	1 68	29 Jn-15 Se	DFO
SW Eel Ground-FF	ET	Bo	06													0	0	0	1	0	1	0	0															2	0 27	12 Jl-31 Au	DFO
Mean	ET	Bo								8 0	1 7	11 4	1 9	2 2	5 3	5 9	3 5	3 8	1 5	0 9	1 4	0 7	0 5	0 2	0 2	0 6	0 0	0 0	0 5									372	2 45		

Table 30 (continued)

Region, River, Site[a]	Gear type[bc]	Direction[d]	Yr	Eels counted in week (week number, start date of week)[e]																																	Sum	Mean[f]	Start and end of counts	Source[g]
				16 16 Apr	17 23 Apr	18 30 Apr	19 7 May	20 14 May	21 21 May	22 28 May	23 4 Jun	24 11 Jun	25 18 Jun	26 25 Jun	27 2 Jul	28 9 Jul	29 16 Jul	30 23 Jul	31 30 Jul	32 6 Aug	33 13 Aug	34 20 Aug	35 27 Aug	36 3 Sep	37 10 Sep	38 17 Sep	39 24 Sep	40 1 Oct	41 8 Oct	42 15 Oct	43 22 Oct	44 29 Oct	45 5 Nov	46 12 Nov	47 19 Nov	48 26 Nov				
Millerton	ET	Bo	94									1	1	11	10	16	5	1	0	1	0	0	0	2	0	0	1	0	0	1	0						50	2.63	14 Jn-24 Oc	Hay01
Millerton	ET	Bo	95						0	0	13	3	6	19	8	6	3	1	2	0	1	0	1	0	1	1	0	0	0	0							65	3.01	23 Ma-20 Oc	Hay01
Millerton	ET	Bo	96						1	0	9	9	1	0	2	5	0	1	2	0	0	0	0	0	1	0	0	0	0	0							31	1.44	21 Ma-18 Oc	Hay01
Millerton	ET	Bo	97						0	1	7	7	1	4	4	4	9	5	5	0	0	0	0	0	0	5	0	0	0	0							52	2.44	26 Ma-21 Oc	Hay01
Millerton	ET	Bo	98						0	6	3	1	0	0	2	5	10	0	1	0	0	0	0	0	1	0	0	0	0	0	0						29	1.35	27 Ma-23 Oc	Hay01
Millerton	ET	Bo	99						0	2	2	0	0	3	6	2	4	0	1	0	1	0	0	1	3	2	0	0	0	0							27	1.27	27 Ma-22 Oc	Hay01
Millerton	ET	Bo	00						0	2	1	4	15	11	5	5	4	2	4	0	0	1	1	0	1	2	1	0	0	0	0						59	2.77	25 Ma-20 Oc	DFO
Millerton	ET	Bo	01						0	0	3	1	12	4	3	2	1	2	0	0	0	0	0	1	2	0	0	0	0	0	0						31	1.42	27 Ma-26 Oc	DFO
Millerton	ET	Bo	02						0	1	0	3	2	1	8	3	4	2	0	1	1	1	0	1	0	0	1	0	0	1	0						30	1.35	23 Ma-25 Oc	DFO
Millerton	ET	Bo	03							1	3	1	8	10	3	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0						28	1.36	3 Jn-24 Oc	DFO
Millerton	ET	Bo	04							0	7	3	4	9	5	3	2	1	0	0	0	1	0	2	0	0	0	0	0	0	0						37	1.79	31 Ma-23 Oc	DFO
Millerton	ET	Bo	05								3	4	1	12	17	5	9	0	1	0	0	1	3	1	0	1	0	1	0	0							59	3.15	9 Jn-17 Oc	DFO
Millerton	ET	Bo	06								6	0	15	9	8	3	1	2	2	0	1	0	2	3	2	0	0	0	0	0							54	2.80	7 Jn-20 Oc	DFO
Mean	ET	Bo							0.3	1.5	5.3	2.9	5.1	7.2	6.2	4.6	4.0	1.3	1.4	0.2	0.3	0.3	0.5	0.8	0.8	0.8	0.2	0.2	0.0	0.2	0.0						552	2.04		
Millerton	ETS	Bo	01					0	0	21	0	0																									21	5.25	19 Ma-15 Jn	DFO
Millerton	ETS	Bo	02				0	1	0	13	2	0																									16	2.95	7 Ma-13 Jn	DFO
Millerton	ETS	Bo	03					0	1	12	11	0																									24	5.60	15 Ma-13 Jn	DFO
Millerton	ETS	Bo	04				0	1	8	9	16	0																									34	7.68	12 Ma-11 Jn	DFO
Millerton	ETS	Bo	05				1	5	0																												6	3.50	11-22 Ma	DFO
Millerton	ETS	Bo	06				6	9	3	12	0																										30	7.24	8 Ma-5 Jn	DFO
Mean	ETS	Bo					2.7	3.1	2.3	13.4	6.8	0.0																									131	5.46		
Bartholomew R	FF	Up	70																					0	0	0	0	0	0							0	0.00	10 Se-17 Oc	Clay96
Bartholomew R	FF	Up	72																	0	0	0	0	0	0	0	0	0	0							0	0.00	9 Au-9 Oc	Clay96
Bartholomew R	FF	Up	73														0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					0	0.00	20 Jl-9 No	Clay96
Bartholomew R	FF	Up	74											0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0.00	26 Jn-8 No	Clay96
Bartholomew R	FF	Up	75										0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0.00	24 Jn-6 No	Clay96
Bartholomew R	FF	Up	76						0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0							0	0.00	16 Ma-18 Oc	Clay96
Bartholomew R	FF	Up	77							0			0	0	0	0	0	0	0	0	0	1	1	1	0	1	1	0	0	0							5	0.24	28 Ma-18 Oc	Clay96
Bartholomew R	FF	Up	78									0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					0	0.00	11 Jn-3 No	Clay96
Bartholomew R	FF	Up	79				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					0	0.00	12 Ma-1 No	Clay96
Bartholomew R	FF	Up	80						0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					0	0.00	22 Ma-3 No	Clay96
Bartholomew R	FF	Up	81						0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					0	0.00	25 Ma-2 No	Clay96
Bartholomew R	FF	Up	82							0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0.00	28 Ma-14 No	Clay96
Bartholomew R	FF	Up	83				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0.00	8 Ma-25 No	Clay96
Bartholomew R	FF	Up	84						0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		1	0.04	21 Ma-25 No	Clay96
Bartholomew R	FF	Up	85		0	0	0	0	0	2	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		4	0.13	23 Apr-25 No	Clay96
Bartholomew R	FF	Up	86						0	0	0	1	11	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			13	0.51	22 Ma-14 No	Clay96
Bartholomew R	FF	Up	87						0	0	0	0	1	1	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0					4	0.17	27 Ma-29 Oc	Clay96
Bartholomew R	FF	Up	88													0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					1	0.07	15 Jl-23 Oc	Clay96
Bartholomew R	FF	Up	89								0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0							0	0.00	1 Jn-9 Oc	Clay96
Bartholomew R	FF	Up	90									0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0								0	0.00	11 Jn-5 Oc	Clay96
Bartholomew R	FF	Up	91										0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0								0	0.00	22 Jn-11 Oc	Clay96
Bartholomew R	FF	Up	92									0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0								0	0.00	15 Jn-11 Oc	Clay96
Bartholomew R	FF	Up	93																				0	0	0	0	0	0	0	0	0						0	0.00	30 Au-24 Oc	Clay96
Mean	FF	Up			0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.1	0.8	0.1	0.1	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		28	0.06		
Bartholomew R	FF	Dn	76						0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0							0	0.00	16 Ma-18 Oc	Clay96
Bartholomew R	FF	Dn	77							5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0							7	0.34	28 Ma-18 Oc	Clay96
Bartholomew R	FF	Dn	82							0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0.00	28 Ma-14 No	Clay96
Bartholomew R	FF	Dn	83				1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		1	0.03	8 Ma-25 No	Clay96
Bartholomew R	FF	Dn	84						0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		1	0.04	21 Ma-25 No	Clay96
Bartholomew R	FF	Dn	85		2	1	0	4	4	1	2	1	0	17	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0			35	1.13	23 Apr-25 No	Clay96
Bartholomew R	FF	Dn	86						0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	48	0	0	0	0	0	0	0					48	1.90	22 Ma-14 No	Clay96
Mean	FF	Dn			2.0	1.0	0.5	1.5	0.8	0.9	0.4	0.1	0.0	2.4	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	7.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0			92	0.51		
Cains R	RS6	Dn	02		0	0	5	7	0	3	3	0																									18	2.80	29 Apr-12 Jn	MSA
Cains R	RS6	Dn	03			0	0	0	1	1	1	0																									3	0.54	5 Ma-12 Jn	MSA
Cains R	2RS6	Dn	04			0	6	3	5	1	9																										24	4.54	3 Ma-10 Jn	DFO
Cains R	RS6	Dn	05			7	3	0	0																												10	3.04	4-23 Ma	DFO
Cains R	RS6	Dn	06			3	1	3	1	2																											10	2.26	1 Ma-1 Jn	DFO
Mean	RS6	Dn			0.0	3.5	3.0	2.6	1.4	2.0	4.3	0.0																									65	2.60		

Table 30 (continued)

Region, River, Site[a]	Gear type[b]	Direction[c]	Yr	Eels counted in week (week number, start date of week)[e]																																					Sum	Mean[f]	Start and end of counts	Source[g]
				16 16 Apr	17 23 Apr	18 30 Apr	19 7 May	20 14 May	21 21 May	22 28 May	23 4 Jun	24 11 Jun	25 18 Jun	26 25 Jun	27 2 Jul	28 9 Jul	29 16 Jul	30 23 Jul	31 30 Jul	32 6 Aug	33 13 Aug	34 20 Aug	35 27 Aug	36 3 Sep	37 10 Sep	38 17 Sep	39 24 Sep	40 1 Oct	41 8 Oct	42 15 Oct	43 22 Oct	44 29 Oct	45 5 Nov	46 12 Nov	47 19 Nov	48 26 Nov				
Dungarvon R	RS6	Dn	02		0	1	3	4	6	9	14	5																											42	6.53	29 Apr-12 Jn	MSA
Dungarvon R	RS6	Dn	03			1	3	1	8	5	6	1																											25	4.38	5 Ma-13 Jn	MSA
Dungarvon R	RS6	Dn	04			0	13	1	3	0	10	0																											27	4.73	3 Ma-11 Jn	DFO
Dungarvon R	RS6	Dn	05			9	1	3	0	3	0																												16	3.29	4 Ma-6Jn	DFO
Dungarvon R	RS6	Dn	06			0	0	1	0	0																													1	0.23	1-31 Ma	DFO
Mean	RS6	Dn			0.0	3.5	4.0	2.0	3.4	3.7	8.8	7.0																											111	4.09		
Quarryville	2RS6	Dn	01				0	1	6	11	6	3																													27	4.73	7 Ma-15 Jn	MSA
Mean	2RS6	Dn	01				0.0	1.0	6.0	11.0	6.0	4.2																													27	4.73		
Rocky Brook	RS5	Dn	00																						30	32	4	0	1			0	0							67	11.73	21 Se-20 Oc, 5 No-14 No	Bow
Rocky Brook	RS6	Dn	01			0	4	0	7	4	3	0														5	16	10	5	0	0	0	0						54	4.40	2-3 Ma, 7 Ma-14 Jn, 28 Se-12 No	Bow
Rocky Brook	RS6	Dn	02		0	0	7	0	5	17	3															10	7	3	0	0	0	0	0						52	4.23	29 Apr-4-Jn, 24 Se-7 No, 10-13 No	Bow
Rocky Brook	RS6	Dn	03				0	3	19	3	10	1																													36	7.88	11 Ma-11 Jn	Bow
Mean	RS6	Dn			0	0	4.5	1	10.3	8	7.5	1.4													7.0	20.6	9	4.3	2.1	0	0	0	0						209	6.00		
Mean Miramichi ET	ET	Bo				0.3	0.8	1.8	1.0	1.7	2.1	3.1	3.3	3.7	5.3	5.3	2.8	2.6	1.8	1.4	1.0	0.6	0.7	0.8	0.7	0.9	0.8	0.4	0.5	0.1	0.2	0.1	0.0	0.0						3,906	1.94		
Mean Miramichi RS	RS	Dn			0.0	2.8	4.3	3.5	7.8	7.8	10.1	4.2	5.3	2.3											7.0.0	20.6	9.0	4.3	2.1	0.0	0.0	0.0	0.0						868	6.09		
Black R																																											
Black R	FF	Up	84				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					0	0.00	11 Ma-16 No	Clay96
Black R	FF	Up	85				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					0	0.00	8 Ma-18 No	Clay96
Black R	FF	Up	86			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				0	0.00	6 Ma-24 No	Clay96
Black R	FF	Up	87		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0.00	29 Apr-19 No	Clay96
Black R	FF	Up	88				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0						0	0.00	7 Ma-2 No	Clay96
Black R	FF	Up	89				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0.00	7 Ma-23 No	Clay96
Black R	FF	Up	90				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0.00	8 Ma-19 No	Clay96
Black R	FF	Up	91				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0.00	9 Ma-25 No	Clay96
Black R	FF	Up	92				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0.00	9 Ma-24 No	Clay96
Black R	FF	Up	93				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0.00	12 Ma-22 No	Clay96
Mean	FF	Up			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				0	0.00		
Black R	FF	Dn	84				0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				1	0.04	11 Ma-16 No	Clay96
Black R	FF	Dn	85				2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				2	0.07	8 Ma-18 No	Clay96
Black R	FF	Dn	86			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0				2	0.07	6 Ma-24 No	Clay96
Black R	FF	Dn	87		0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0				5	0.17	29 Apr-19 No	Clay96
Black R	FF	Dn	88				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0						0	0.00	7 Ma-2 No	Clay96
Black R	FF	Dn	89				3	2	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0				7	0.24	7 Ma-23 No	Clay96
Black R	FF	Dn	90				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0				1	0.04	8 Ma-19 No	Clay96
Black R	FF	Dn	91				1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0				3	0.10	9 Ma-25 No	Clay96
Black R	FF	Dn	92				0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				1	0.04	9 Ma-24 No	Clay96
Black R	FF	Dn	93				0	4	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				6	0.22	12 Ma-22 No	Clay96
Mean	FF	Dn			0.0	0.9	1.0	0.7	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0			28	0.10		
Richibucto R																																										
Site 1	ET	Bo	92																				14	8	5	13	13	12	24	6	1	0							96	10.0	3 Se-8 No	Clay96
Site 1	ET	Bo	93																	1	1	12	4	2	15	38	21	7	24	9	5	0							139	11.7	12 Au-2 No	Clay96
Mean	ET	Bo																		7.0	1.0	12.0	4.0	8.0	11.5	21.5	17.0	10.0	18.0	16.5	5.5	0.6	0.0						235	11.0		
Site 2	ET	Bo	93																							1	13	18	4	0	0								36	7.4	30 Se-2 No	Clay96
Mean	ET	Bo	93																							7.0	13.0	18.0	4.0	0.0	0.0								36	7.4		
Mean Richibucto ET	ET	Bo																		7.0	1.0	12.0	4.0	8.0	11.5	21.5	16.3	11.0	18.0	12.3	3.7	0.4	0.0						271	10.3		
Buctouche R																																										
Site 1	ET	Bo	92																									0	22	14	0	0							36	9.00	7 Oc-3 No	Clay96
Site 1	ET	Bo	93															1	1	3	1	1	3	3	3	21	14	5	3	1	0	0							60	4.04	24 Jl-4 No	Clay96
Site 1	ET	Bo	97																							1	0	0	0	0									1	0.19	21 Se-27 Oc	DFO
Mean	ET	Bo																1.2	1.0	3.0	1.0	1.0	3.0	3.0	3.0	15.4	7.0	2.3	8.3	5.0	0.0	0.0							97	4.02		

Table 30 (continued)

Region, River, Site[a]	Gear type[b,c]	Direction[d]	Yr	Eels counted in week (week number, start date of week)[e]																																	Sum	Mean[f]	Start and end of counts	Source[g]
				16 16 Apr	17 23 Apr	18 30 Apr	19 7 May	20 14 May	21 21 May	22 28 May	23 4 Jun	24 11 Jun	25 18 Jun	26 25 Jun	27 2 Jul	28 9 Jul	29 16 Jul	30 23 Jul	31 30 Jul	32 6 Aug	33 13 Aug	34 20 Aug	35 27 Aug	36 3 Sep	37 10 Sep	38 17 Sep	39 24 Sep	40 1 Oct	41 8 Oct	42 15 Oct	43 22 Oct	44 29 Oct	45 5 Nov	46 12 Nov	47 19 Nov	48 26 Nov				
Site 2	ET	Bo	93																							5	6	3	0	0					14	3.27	6 Oc-4 No	Clay96
Site 2	ET	Bo	94																											0					0	0.00	31 Oc-4 No	DFO
Site 2	ET	Bo	95																					1	4	3	0	1	1	0					10	1.59	22 Se-29 Oc	DFO
Site 2	ET	Bo	96																					0	0	0	0	0	0						0	0.00	17 Se-28 Oc	DFO
Site 2	ET	Bo	97																				0	0	0	1	0	1	0	0					2	0.29	9 Se-27 Oc	DFO
Site 2	ET	Bo	99																			0	0	0	0	0	0	0	0						0	0.00	1 Se-16 Oc	DFO
Site 2	ET	Bo	00																					0	0	0	0	0	0	0	0				0	0.00	16 Se-3 No	DFO
Mean	ET	Bo																				0.0	0.0	0.0	0.2	1.0	1.5	1.2	0.8	0.2	0.0				26	0.69		
Site 3	FF	Up	94																								0	0	0	0	0	0	0	0	0	0.00	8 Oc-23 No	DFO
Site 3	FF	Up	95																								0	0	0	0	0				0	0.00	11 Oc-9 No	DFO
Site 3	FF	Up	96																								0	0	1	0					1	0.27	9 Oc-3 No	DFO
Site 3	FF	Up	97																								0	0	0	0	0				0	0.00	3 Oc-7 No	DFO
Mean	FF	Up																									0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	1	0.05		
Site 3	FF	Dn	94																								0	0	0	0	0	0	0	0	0	0.00	8 Oc-23 No	DFO
Mean	FF	Dn	94																								0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.00		
Mean Buctouche ET	ET	Bo																1.2	1.0	3.0	1.0	1.0	2.3	1.4	1.0	4.0	2.7	1.8	3.6	2.3	0.1	0.0				123	1.98		
Gulf Nova Scotia																																								
Annabells Creek																																								
Highway	H	Bo	05																			0	1	1	2	0	0								4		26 Au-28 Se	BJ
Highway	H	Bo	06									1	1	2	4	2	0	0	0	0	0	0	0	0	0	0	0								10		13 Jn-29 Se	BJ
Footbridge	H	Bo	06									0	0	0	0	0	0	0	0	0	0	0	0	0	0	0									0		17 Jn-23 Se	BJ
South R. Antigonish																																								
South R Antigonish	FF	Up	83			0	0	0	0	0	0	0	0	0	0	1	1	0	0	0															2	0.15	5 Ma-4 Au	Clay96
South R Antigonish	FF	Up	84	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0.03	27 Apr-25 No	Clay96
South R Antigonish	FF	Up	85			0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0.07	2 Ma-20 No	Clay96
South R Antigonish	FF	Up	86			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	1 Ma-19 No	Clay96
South R Antigonish	FF	Up	87			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	2 Ma-12 No	Clay96
Mean	FF	Up		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.0	0.0	0.2	0.3	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5	0.04		
South R Antigonish	FF	Dn	83			0	2	0	0	0	1	0	0	0	0	1	0	0	0																4	0.30	5 Ma-4 Au	Clay96
South R Antigonish	FF	Dn	84	0		0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	10	1	0	3	0	0	0	0	0	0	0	16	0.53	27 Apr-25 No	Clay96
South R Antigonish	FF	Dn	85			0	0	9	4	4	12	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	2	0	0	0	0	0	35	1.21	2 Ma-20 No	Clay96
South R Antigonish	FF	Dn	86			0	0	1	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0.14	1 Ma-19 No	Clay96
South R Antigonish	FF	Dn	87			0	2	2	1	2	3	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0		12	0.43	2 Ma-12 No	Clay96
Mean	FF	Dn		0.0	0.0	0.8	2.6	1.2	1.2	3.2	0.0	0.0	1.0	0.2	0.2	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	2.5	0.3	0.0	0.8	0.3	0.8	0.0	0.0	0.0	0.0	0.0	71	0.55		
Margaree R																																								
Levis	ET	Bo	91												0	0	0	0	0	0	0	0	0													0	0.00	7 Jl-30 Au	Clay96
Levis	ET	Bo	92									0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0						1	0.06	15 Jn-14 Oc	Clay96
Levis	ET	Bo	93									0	0	0	0	2	4	0	7		0	0	0	0	1	0	0	0	2	0					16	0.88	14 Jn-18 Oc	Clay96
Mean	ET	Bo										0.0	0.0	0.0	0.4	0.7	1.3	0.0	2.3	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	1.0	0.0					17	0.39		
Lower Trap	ET	Bo	88																				0	5	25	7	0	41	8	6	3					95	12.79	2 Se-23 Oc	Clay96
Lower Trap	ET	Bo	89																				12	5	1	0	0	3	2	0						23	3.29	29 Au-16 Oc	Clay96
Lower Trap	ET	Bo	90								0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0						1	0.05	6 Jn-16 Oc	Clay96
Mean	ET	Bo									0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.0	3.3	8.7	2.3	0.0	14.7	3.3	3.8	10.5				119	3.54		
Upper Trap	ET	Bo	88																				0	3	0	2	0	4	0	0	0					9	1.17	30 Au-22 Oc	Clay96
Upper Trap	ET	Bo	89																				0	4	0	1	4	5	1	0						15	2.19	30 Au-16 Oc	Clay96
Upper Trap	ET	Bo	90											0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	4	0						6	0.38	29 Jn-17 Oc	Clay96
Upper Trap	ET	Bo	91									0	0	0	0	0	0	0	1	0	0	0	0													1	0.09	11 Jn-28 Au	Clay96
Upper Trap	ET	Bo	92												0	0	0	0	0	0	0	0	0	0	2	1	0	0	1	0						4	0.22	7 Jl-20 Oc	Clay96
Mean	ET	Bo										0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	2.0	0.5	1.3	1.0	2.3	1.5	0.0	0.0				35	0.59		
Fordview	RS6	Dn	01				0	2	12	4	0	3	1	1																						23	3.66	10 Ma-22 Jn	DFO
Fordview	RS6	Dn	02				2	3	0	3	2	1	0	0																						11	1.51	7 Ma-26 Jn	DFO
Fordview	RS6	Dn	03				1	11	10	39	14	2	1	0																						78	10.92	7 Ma-25 Jn	DFO
Fordview	RS6	Dn	04				2	9	18	6	53	92	31																								211	34.35	12 Ma-23 Jn	DFO
Fordview	RS6	Dn	05			15	27	1	61	96	74	16	3																								293	41.86	4 Ma-21 Jn	DFO
Fordview	RS6	Dn	06			46	12	124	40	32	10	10																									274	42.62	3 Ma-16 Jn	DFO
Mean	RS6	Dn				61.0	9.1	25.0	23.5	30.0	25.5	21.2	8.7	2.3																								890	22.09		

Table 30 (continued)

Region, River, Site[a]	Gear type[bc]	Direction[d]	Yr	Eels counted in week (week number, start date of week)[e]																																					Sum	Mean[f]	Start and end of counts	Source[g]
				16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48							
				16 Apr	23 Apr	30 Apr	7 May	14 May	21 May	28 May	4 Jun	11 Jun	18 Jun	25 Jun	2 Jul	9 Jul	16 Jul	23 Jul	30 Jul	6 Aug	13 Aug	20 Aug	27 Aug	3 Sep	10 Sep	17 Sep	24 Sep	1 Oct	8 Oct	15 Oct	22 Oct	29 Oct	5 Nov	12 Nov	19 Nov	26 Nov							
Lake O'Law Brook OF	FF	Up	89				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0									1	0.04	12 Ma-28 Oc	Dav95
Lake O'Law Brook OF	FF	Up	90				0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	2	0	0	0													5	0.24	10 Ma-30 Se	Dav95
Mean	FF	Up					0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.5	0.5	1.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0									6	0.13		
Lake O'Law Brook OF	FF	Dn	89				11	2	0	0	0	1	2	1	1	0	0	0	0	0	0	0	0	0	0	1	5	0	0	0	0									24	0.99	12 Ma-28 Oc	Dav95
Lake O'Law Brook OF	FF	Dn	90				0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	1	0	0	0	0													4	0.19	10 Ma-30 Se	Dav95
Mean	FF	Dn					12.8	1.0	0.0	0.0	0.0	0.5	1.0	0.5	0.5	0.0	0.0	0.0	1.5	0.0	0.0	0.0	0.5	0.0	0.0	0.5	2.5	0.0	0.0	0.0	0.0									28	0.62		
Lake O'Law Brook IF	FF	Up	89				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0									0	0.00	12 Ma-28 Oc	Dav95
Lake O'Law Brook IF	FF	Up	90				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0													0	0.00	10 Ma-30 Se	Dav95
Mean	FF	Up					0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0									0	0.00		
Lake O'Law Brook IF	FF	Dn	89				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0									2	0.08	12 Ma-28 Oc	Dav95
Lake O'Law Brook IF	FF	Dn	90				0	2	1	0	0	0	0	0	0	0	0	0	35	0	0	0	0	0	1	0	0													39	1.90	10 Ma-30 Se	Dav95
Mean	FF	Dn					0.0	1.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.5	0.0	0.0	0.0	0.0	0.0	0.5	0.0	1.0	0.0	0.0	0.0	0.0									41	0.91		
Lake O'Law Brook RM	FF	Up	89				0	0	7	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0						8	0.29	12 Ma-18 No	Dav95
Lake O'Law Brook RM	FF	Up	90				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0							0	0.00	7 Ma-11 No	Dav95
Lake O'Law Brook RM	FF	Up	91				0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0							1	0.04	10 Ma-18 No	Dav95
Lake O'Law Brook RM	FF	Up	92						0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				0	0.00	21 Ma-2 De	Dav95
Lake O'Law Brook RM	FF	Up	93				0	0	0	0	0	0	0														0	0	0	0	0	0	0	0						0	0.00	10 Ma-18 Jn, 30 Se-15 No	Dav95
Mean	FF	Up					0.0	0.0	1.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			9	0.07		
Lake O'Law Brook RM	FF	Dn	89				0	0	7	2	1	1	0	0	0	1	0	0	0	0	0	8	0	0	1	1	1	0	0	0	0	0	0	0						23	0.84	12 Ma-18 No	Dav95
Lake O'Law Brook RM	FF	Dn	90				1	1	1	4	1	1	0	0	0	0	3	4	28	0	2	0	0	0	0	19	0	0	0	0	0	0	0							65	2.41	7 Ma-11 No	Dav95
Lake O'Law Brook RM	FF	Dn	91				0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0							9	0.33	10 Ma-18 No	Dav95
Lake O'Law Brook RM	FF	Dn	92						3	1	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				6	0.21	21 Ma-2 De	Dav95
Lake O'Law Brook RM	FF	Dn	93				0	4	2	0	0	0	0														0	0	0	0	0	0	0	0						6	0.48	10 Ma-18 Jn, 30 Se-15 No	Dav95
Mean	FF	Dn					0.4	1.3	2.8	1.4	0.4	0.6	0.0	0.3	0.0	0.3	0.8	1.0	7.3	0.0	0.5	2.0	0.0	1.8	0.3	5.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			109	0.89		
Mean Margaree ET	ET	Bo									0.0	0.0	0.0	0.0	0.1	0.3	0.6	0.0	1.0	0.1	0.0	0.0	1.7	2.0	3.2	1.3	0.4	5.9	2.0	1.3	7.0									171	1.25		
Mean Margaree FF Up	FF	Up					0.0	0.0	0.8	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.1	0.1	0.3	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			15	0.07		
Mean Margaree FF Dn	FF	Dn					2.9	1.1	1.7	0.8	0.2	0.4	0.2	0.3	0.1	0.1	0.4	0.5	8.4	0.0	0.3	1.0	0.1	0.9	0.3	2.6	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			178	0.84		
Prince Edward Island																																											
McCallums Pond <9 cm	2RT	Up	05													0	0	8	3	58	9	6	3	9	6	2	0													104	11.56	11 Jl-28 Se	DFO
McCallums Pond <9 cm	2RT	Up	06						0	0	0	0	4	2	1	1	2	2	16	11	4	2	0	0	1	0	0	0	0											46	2.91	23 Ma-12 Oc	DFO
Mean	2RT	Up							0.0	0.0	0.0	0.0	5.6	2.0	1.4	0.7	1.0	10.0	12.7	32.2	7.0	3.7	2.5	3.7	4.5	1.8	0.0	0.0	0.0											150	6.05		
McCallums Pond, all	2RT	Up	05													0	0	8	5	65	17	28	3	9	6	3	1													145	16.11	11 Jl-28 Se	DFO
McCallums Pond, all	2RT	Up	06						0	0	2	1	4	2	1	1	4	6	32	20	9	4	0	3	5	0	0	0	0											94	5.95	23 Ma-12 Oc	DFO
Mean	2RT	Up							0.0	0.0	4.7	1.0	5.6	2.0	1.4	0.7	2.1	14.0	24.7	39.7	14.0	14.9	2.5	4.9	7.0	2.6	1.2	0.0	0.0											239	9.64		
McCallums Pond	H	Bo	05													0	1	1	3	6	12	3	3	3	1	0	0													33		11 Jl-28 Se	DFO
McCallums Pond	H	Bo	06						0	0	0	1	1	0	0	0	1	0	0	1	2	0	0	0	0	0	0	0	0	0	0									6		23 Ma-28 Oc	DFO
Cass Pond	H	Bo	5													5	11	7	2	4	3	5	6	3	1	2	1													50		12 Jl-28 Se	DFO
Cass Pond	H	Bo	6							0	0	0	5	3	4	1	2	2	3	3	2	1	1	0	1	0	0	0	0	0	0									28		30 Ma-28 Oc	DFO
Long Pond OF, Dalvay[i]	FN	Dn	02																							1	50	95	0	1	29	0								176	29.3	20 Se-31 Oc	DFO
Mean	FN	Dn	02																							1.8	50.0	95.0	0.0	1.0	29.0	0.0								176	29.3		
Campbells Pond OF[i]	FN	Dn	02																								28	37	3	3	11	10	5	0						97	12.1	24 Se-18 No	DFO
Mean	FN	Dn	02																								28.0	37.0	3.0	3.0	11.0	10.0	5.0	0.0						97	12.1		
Mean Long & Camp	FN	DN	02																							1.8	39.0	66.0	1.5	2.0	20.0	7.0	5.0	0.0						273	19.5		

Table 30 (continued)

Region, River, Site[a]	type[b,c]	Direction[d]	Yr	Eels counted in week (week number, start date of week)[e]																																	Sum	Mean[f]	Start and end of counts	Source[g]
				16 16 Apr	17 23 Apr	18 30 Apr	19 7 May	20 14 May	21 21 May	22 28 May	23 4 Jun	24 11 Jun	25 18 Jun	26 25 Jun	27 2 Jul	28 9 Jul	29 16 Jul	30 23 Jul	31 30 Jul	32 6 Aug	33 13 Aug	34 20 Aug	35 27 Aug	36 3 Sep	37 10 Sep	38 17 Sep	39 24 Sep	40 1 Oct	41 8 Oct	42 15 Oct	43 22 Oct	44 29 Oct	45 5 Nov	46 12 Nov	47 19 Nov	48 26 Nov				
Morell R																																									
Leards Dam	FWT	Up	85												0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0.00	8 Jl-17 No	DFO
Leards Dam	FWT	Up	86											0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0			1	0.05	27 Jn-15 No	DFO
Leards Dam	FWT	Up	87							0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					0	0.00	3 Jn-3 No	DFO
Leards Dam	FWT	Up	88							0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0					1	0.04	3 Jn-8 No	DFO
Leards Dam	FWT	Up	89								0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0					2	0.09	5 Jn-10 No	DFO
Leards Dam	FWT	Up	90								0	0	0	0	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0				3	0.13	4 Jn-14 No	DFO
Leards Dam	FWT	Up	91						0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				0	0.00	24 Ma-17 No	DFO
Leards Dam	FWT	Up	92							0	0	0	0	0	1	0	0	0	0	0	1	2	1	0	0	0	0	0	0	0	0	0	0	0			5	0.20	28 Ma-19 No	DFO
Leards Dam	FWT	Up	93						0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	1	0	0	0	0	0	0	0	0	0	3	0.11	25 Ma-30 No	DFO
Leards Dam	FWT	Up	94						0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				0	0.00	24 Ma-18 No	DFO
Leards Dam	FWT	Up	95						0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				1	0.04	24 Ma-18 No	DFO
Leards Dam	FWT	Up	96							0	0	0	0	0	0	2	1	3	1	0	0	1	0	1	1	0	0	0	0	0	0	0	0				10	0.41	31 Ma-16 No	DFO
Leards Dam	FWT	Up	97								0	0	0	0	0	0	0	1	0	0	0	2	1	0	0	0	0	6	0	0	0	0	0				10	0.42	7 Jn-17 No	DFO
Leards Dam	FWT	Up	99								0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					0	0.00	8 Jn-1 No	DFO
Leards Dam	FWT	Up	02							0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0										0	0.00	28 Ma-26 Se	MRMC
Mean	FWT	Up							0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.1	0.1	0.3	0.1	0.0	0.1	0.6	0.1	0.2	0.1	0.0	0.1	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	36	0.10		
Murray R																																									
MacClures, <9.0 cm	2RT	Up	02											4	3	17	30	9	11	0	12	0	1														87	8.8	25 Jn-1Se	DFO
Mean	2RT	Up	02											4.0	3.0	17.0	30.0	9.0	11.0	0.0	12.0	0.0	1.2														87	8.8		
MacClures, all	2RT	Up	02											4	3	18	33	9	11	0	14	0	1														93	9.4	25 Jn-1Se	DFO
Mean	2RT	Up	02											4.0	3.0	18.0	33.0	9.0	11.0	0.0	14.0	0.0	1.2														93	9.4		

[a]Site abbreviations: E - Enclosure; FF - Food Fishery; I - Index; IF - inflow; H - Hatchery; NW - Northwest; OF - outflow; RM - rivermouth; SW - Southwest.

[b]BT - barrier trap; ET - estuary trap; ETS - estuary trap, with pen fitted with fine mesh to retain Atlantic salmon smolts; FF - fish fence; FN - multiple fyke nets with wings arranged in a V, set across the stream; FWT - fishway trap; RS - rotary screw trap; RS5 - five foot rotary screw trap; RS6 - six foot rotary screw trap; 2RS6 - summed catches of 2 six foot rotary screw traps, fished side-by-side; RS8 - eight foot rotary screw trap; 2RT - summed catches of 2 elver ramp traps, one on each side of the stream.

[c]Mean catch per week is not calculated for habitat traps because this gear does not retain fish that wish to leave, and mean time that fish stay in the gear is not known. Number of trap checks is as follows: Annabells Creek: Highway 2005 - 26, Highway 2006 - 47, Footbridge 2006 - 43; McCallums Pond: 2005 - 24, 2006 - 53; Cass Pond: 2005 - 25, 2006 - 50.

[d]Up means gear set to capture fish moving upstream, Dn means gear set to capture fish moving downstream, and Bo means gear set to capture fish moving in either direction. All three types may also capture resident fish undertaking local movements. Most ET and ETS gears are marked "Bo," but some of these may have a substantial degree of directionality due to net configuration.

[e]For Catamaran Brook 1994-2001, weekly start dates are 1 day later than those listed.

[f]Means are calculated as 7 * (Number of eels counted)/(Number of gear-days). Twinned gears (i.e. gear codes 2RS6, 2RT) are considered to be a single gear.

[g]Data sources: BC - Burnt Church First Nation; BJ - B. Jessop; Bow - Bowater Canadian Forest Products; Clay96 - Claytor 1996; Dav95 - Davidson et al. 1995; DFO - DFO files; ERB - Eel River Bar in collaboration with DFO; FL - Fraser Lodge; F-R - Fraser Lodge and Restigouche River Watershed Management Council in collaboration with DFO; Har98 - Hardie et al. 1998; Hay01 - Hayward 2001; LFN - Listiguj First Nation in collaboration with DFO; MRMC - Morell River Management Co-op; MSA - Miramichi Salmon Association; NSPA - Northumberland Salmon Protection Association.

[h]Means are calculated for 1990-2004.

[i]Gear caught silver eels migrating to the ocean. Numbers presented here give only an approximate indication of the temporal distribution of the run because fishing efficiency was subject to large variation due to gear modifications and to storms which disrupted gear and shifted beach sand, temporarily blocking the outlet stream to the ocean.

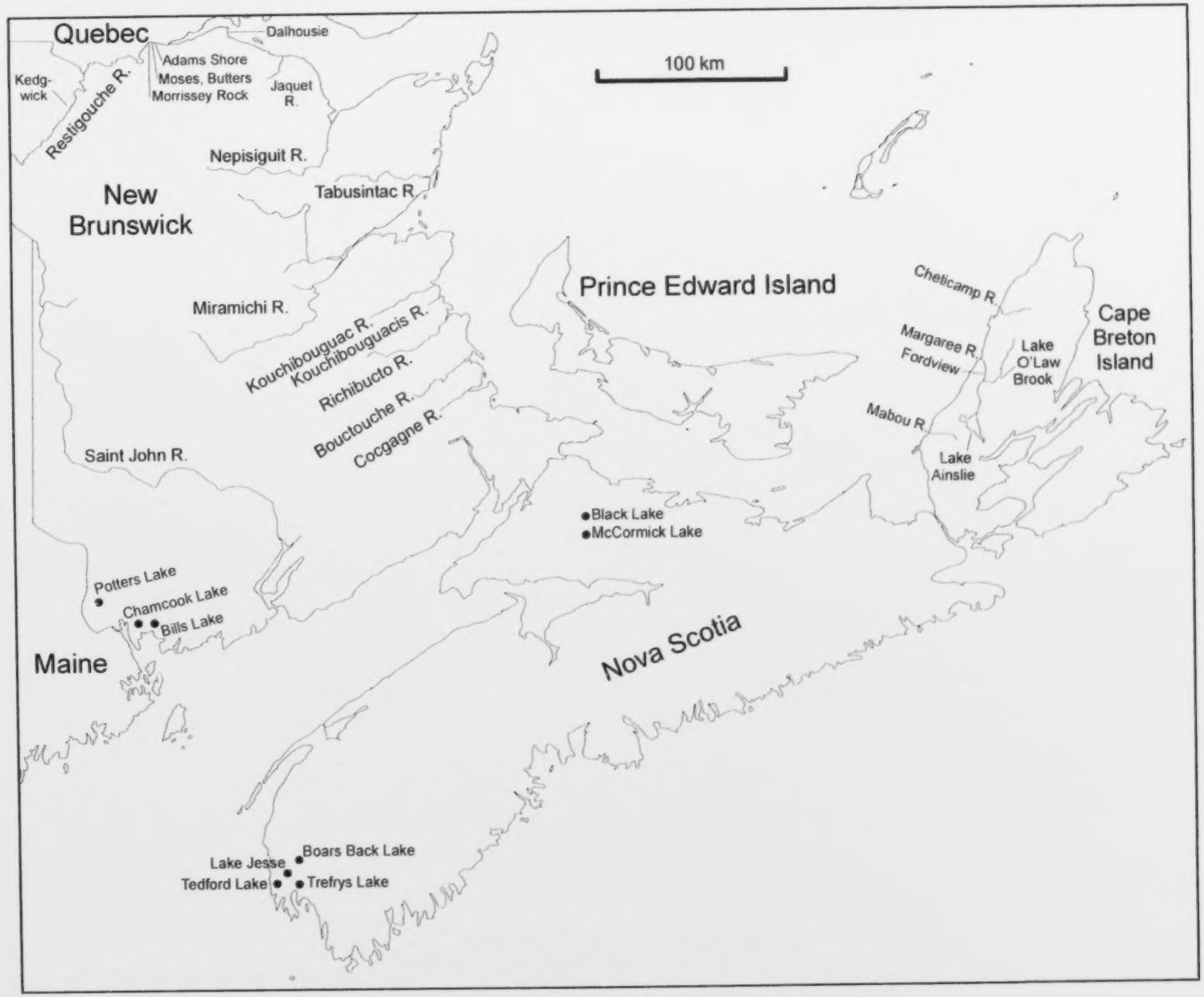


Fig. 1. The Maritime Provinces of Canada, showing eel research sites.

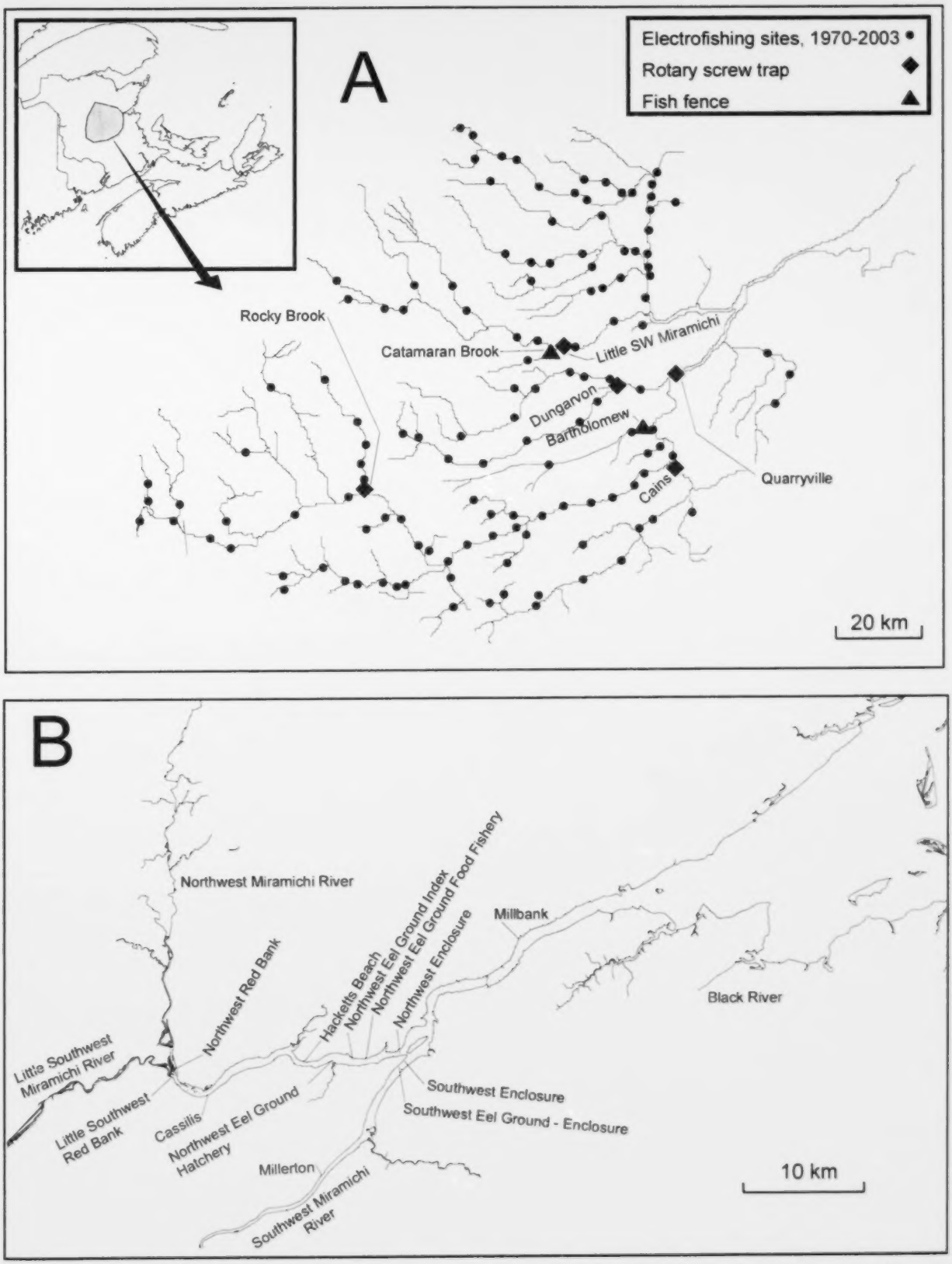


Fig 2. The Miramichi River, New Brunswick, showing locations of electrofishing, rotary screw traps, and fish fences (A), and estuary trap-nets (B).

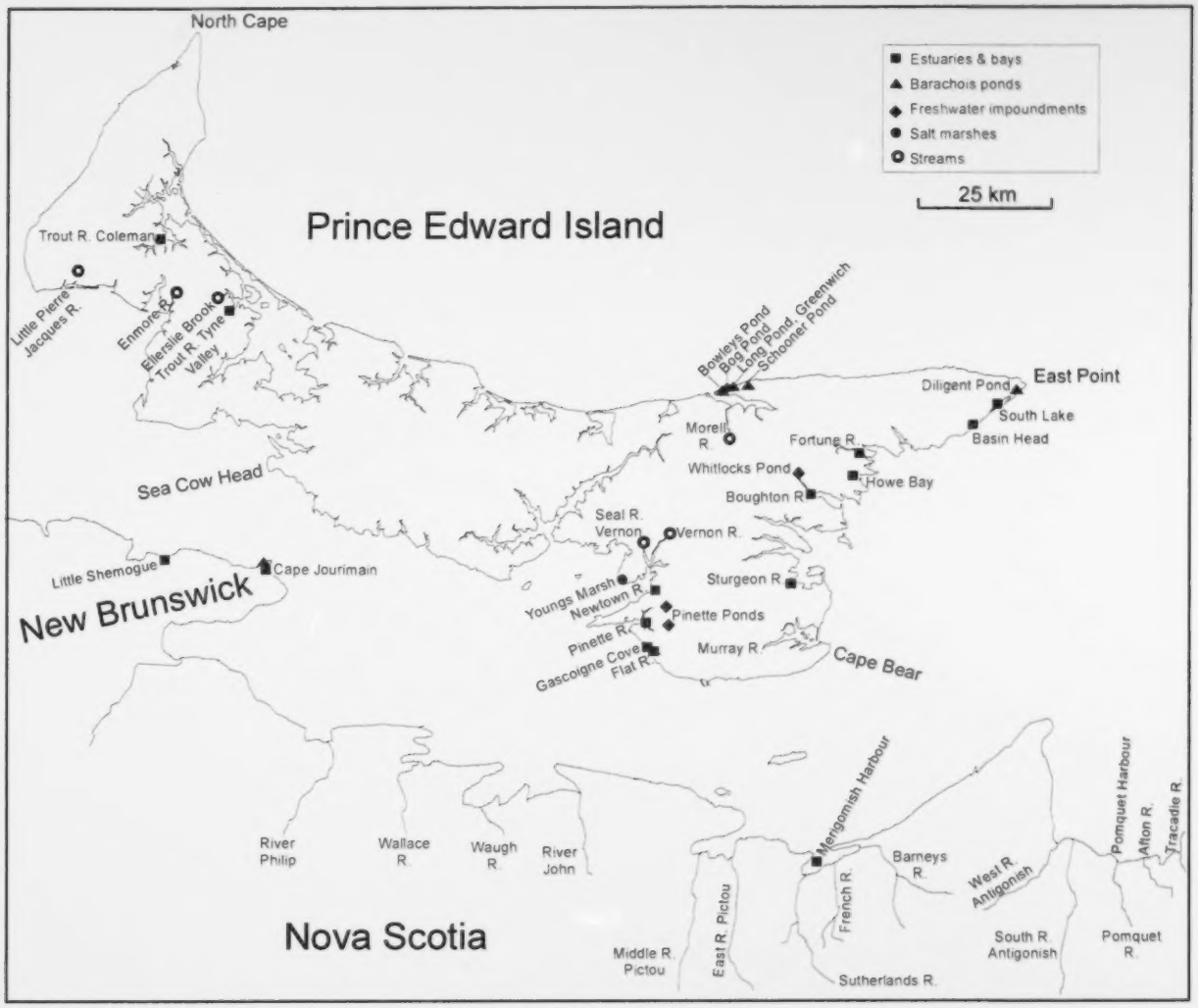


Fig. 3. Southeast New Brunswick, north mainland Nova Scotia, and Prince Edward Island, showing eel research sites.

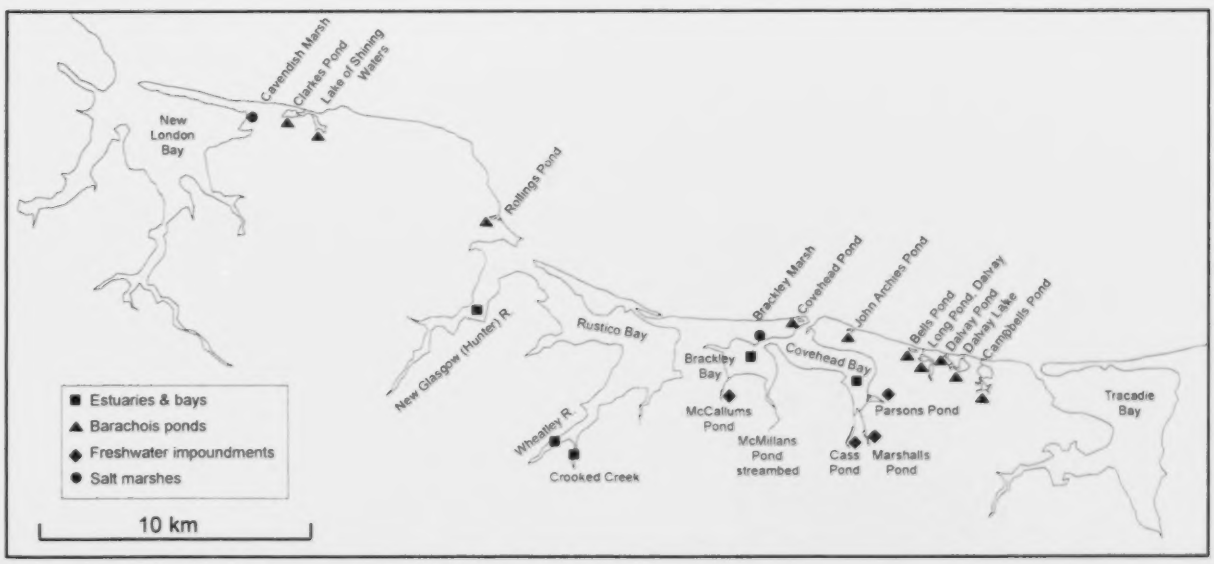


Fig. 4. Central north shore of Prince Edward Island, showing eel research sites.

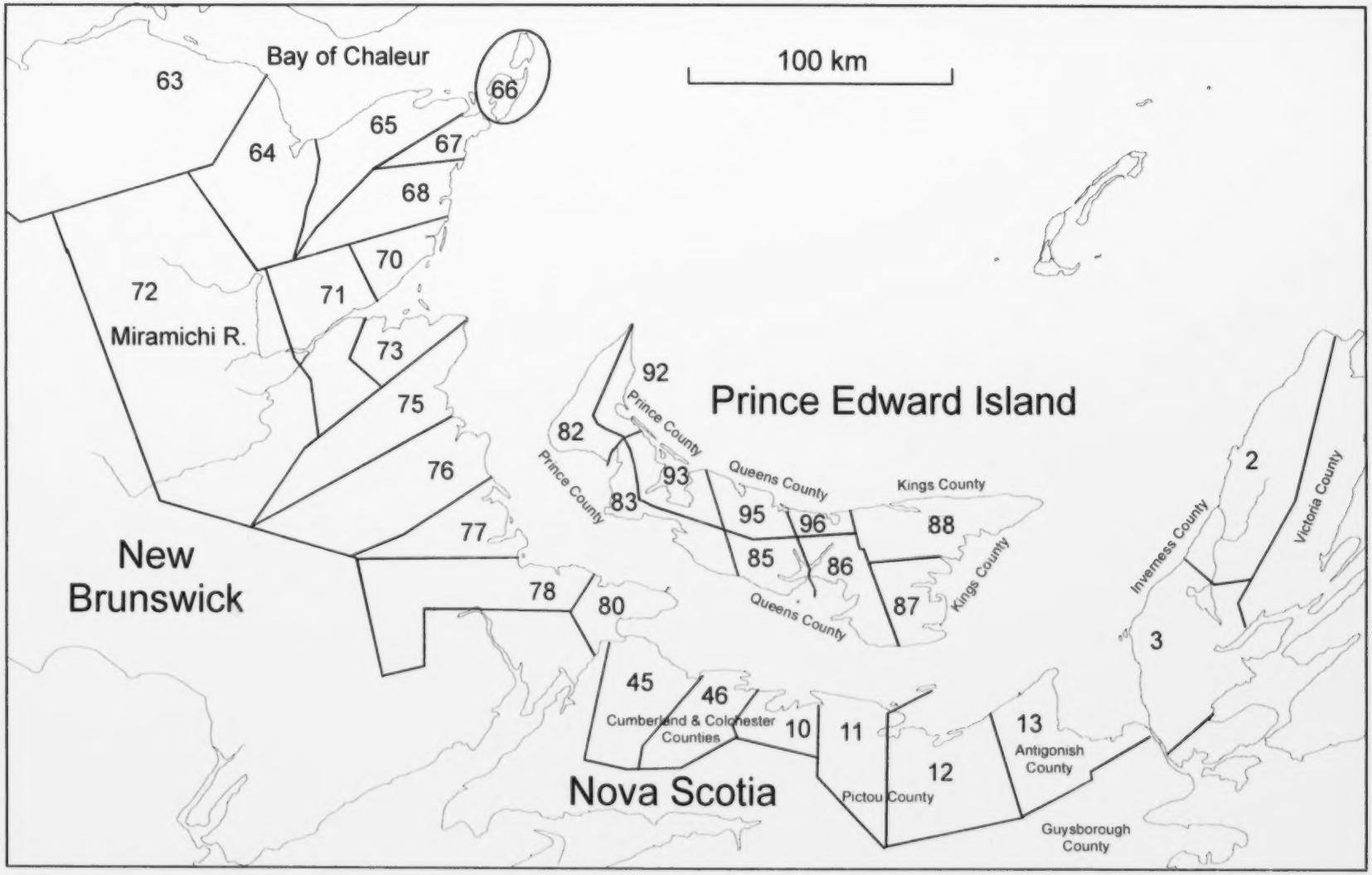


Fig. 5. The southern Gulf of St. Lawrence, showing Statistical Districts.

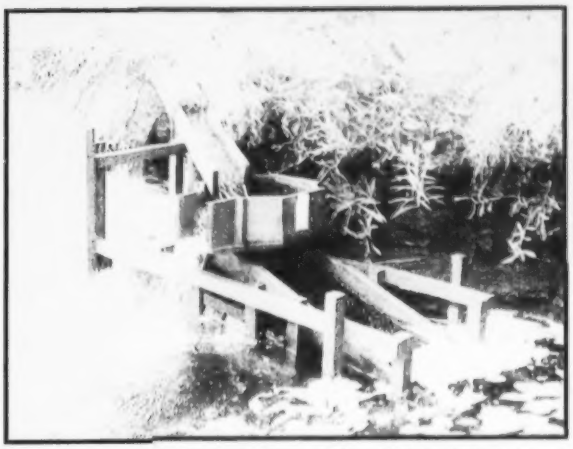


Fig. 6. Elver ramp trap at Murray River, Prince Edward Island.

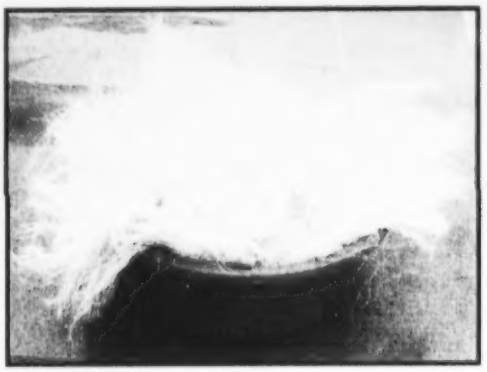


Fig. 7. Habitat trap for eels.

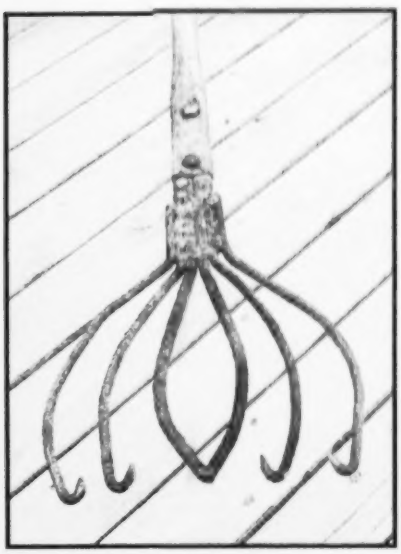


Fig. 8. Eel mud spear.

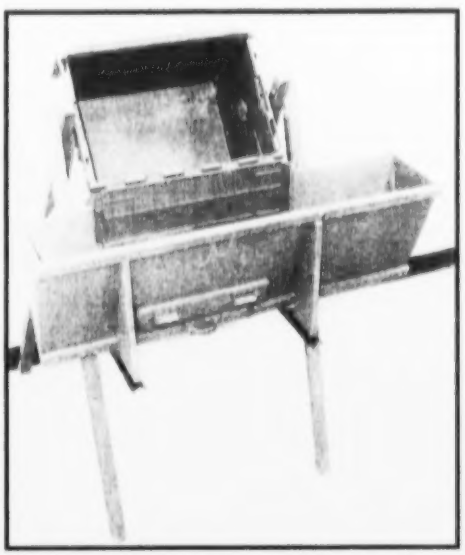


Fig. 9. Eel measuring trough, with intake bin.

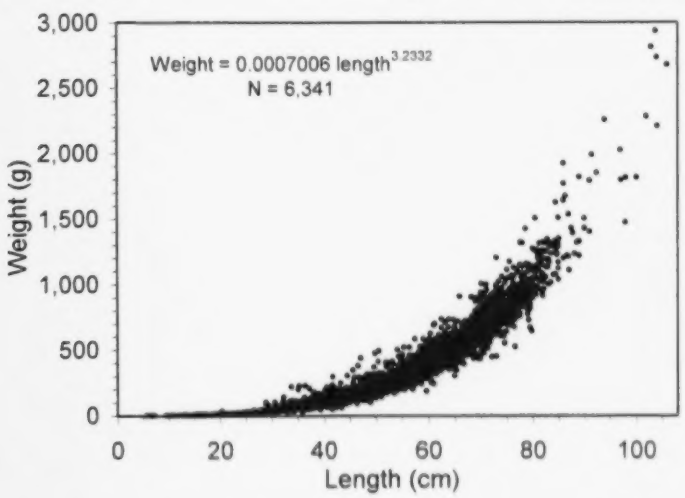


Fig. 10. Length - weight relation of eels sampled in the southern Gulf of St. Lawrence.

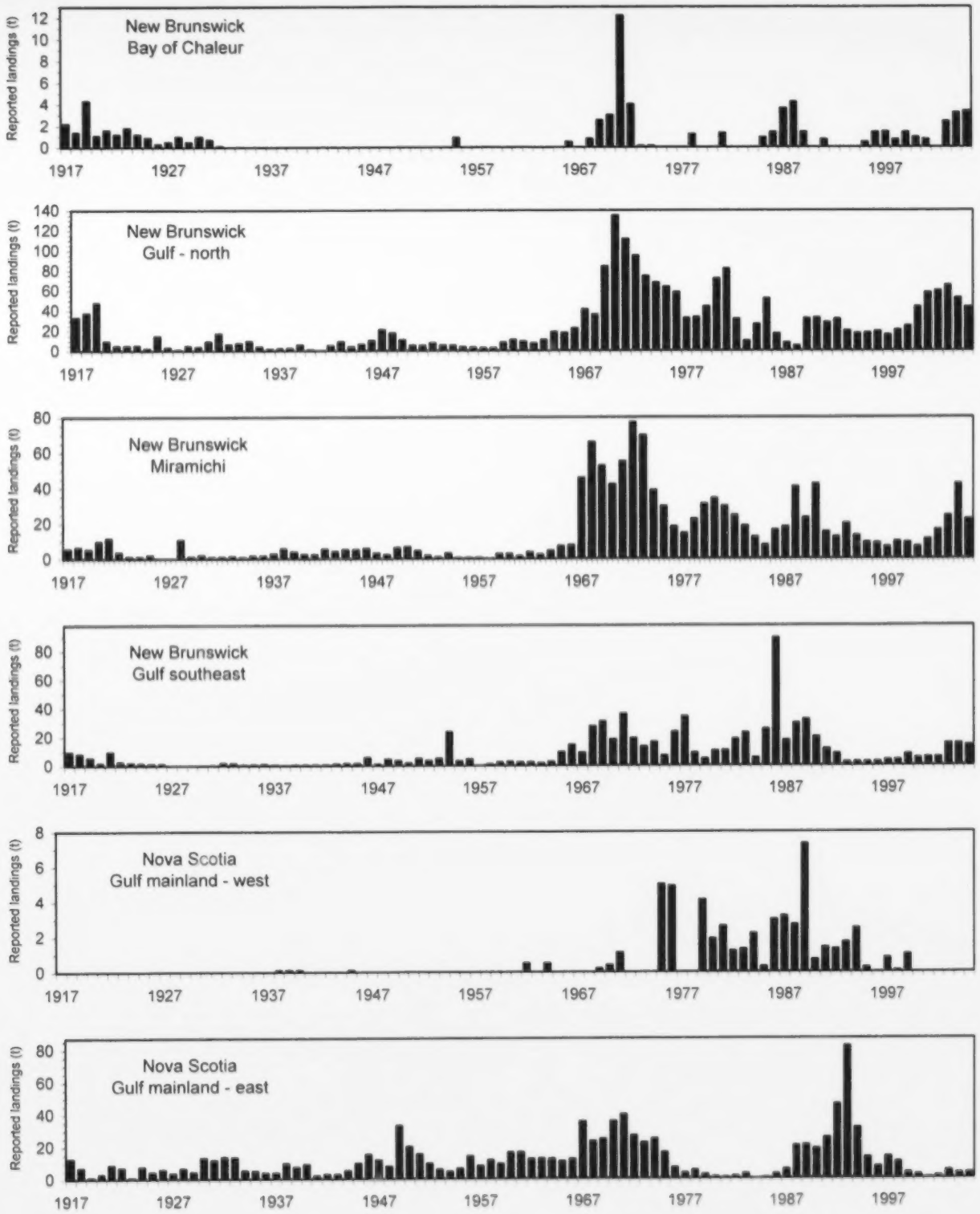


Fig. 11. Reported landings of American eels in the southern Gulf of St. Lawrence, 1917-2005, by region.

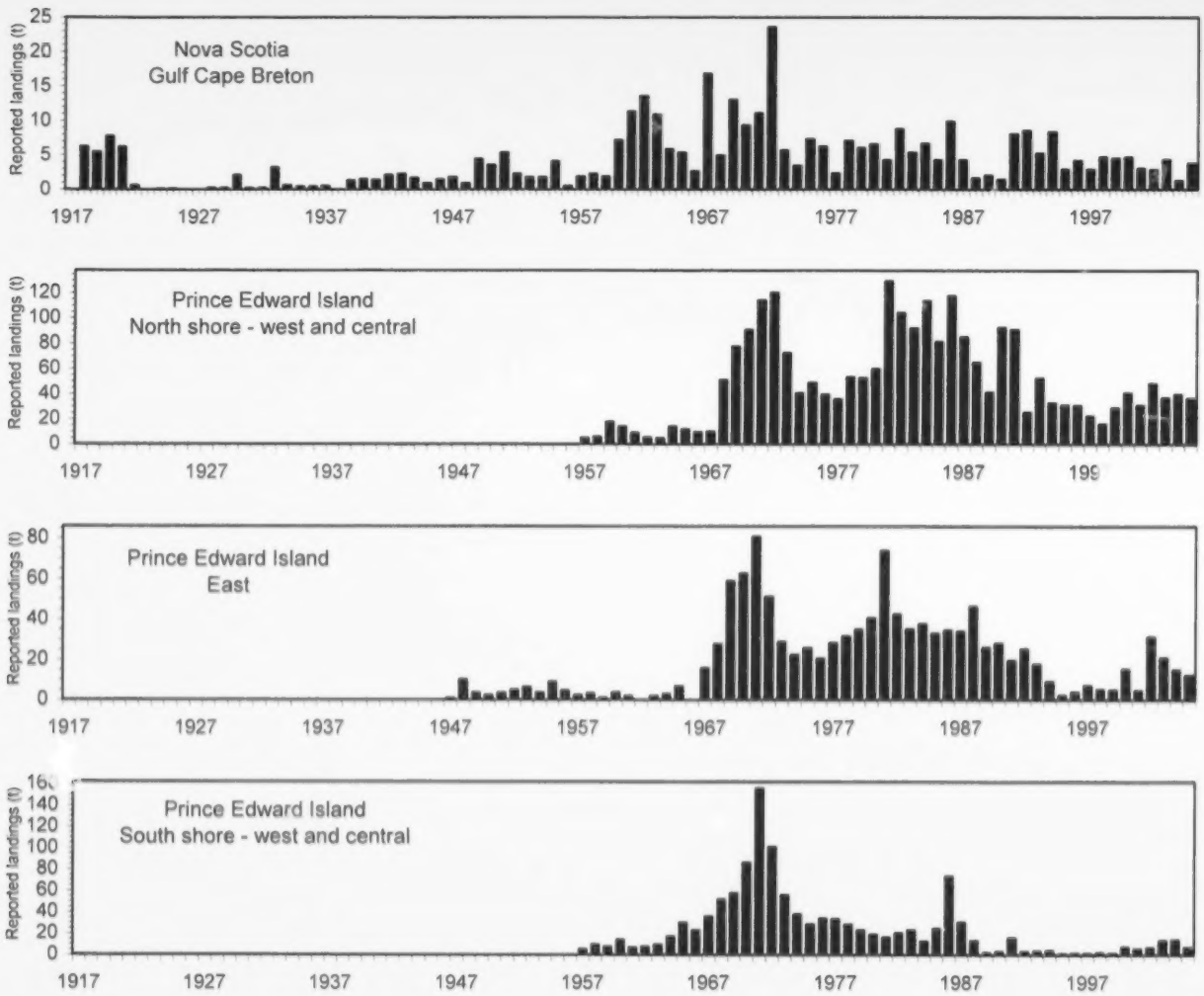


Fig. 11 (continued)

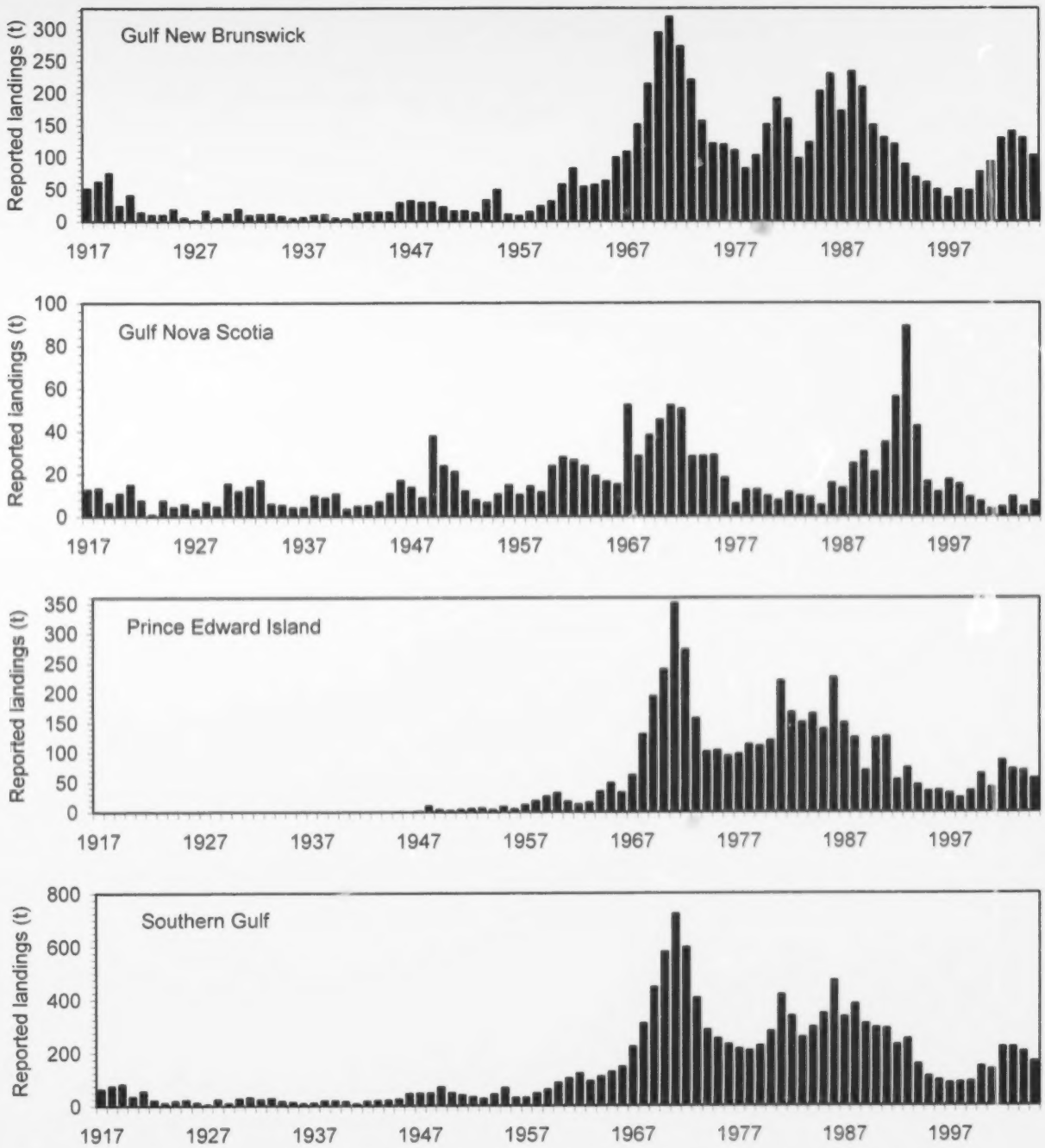


Fig. 12. Reported landings of American eels in the southern Gulf of St. Lawrence, 1917-2005, by province.

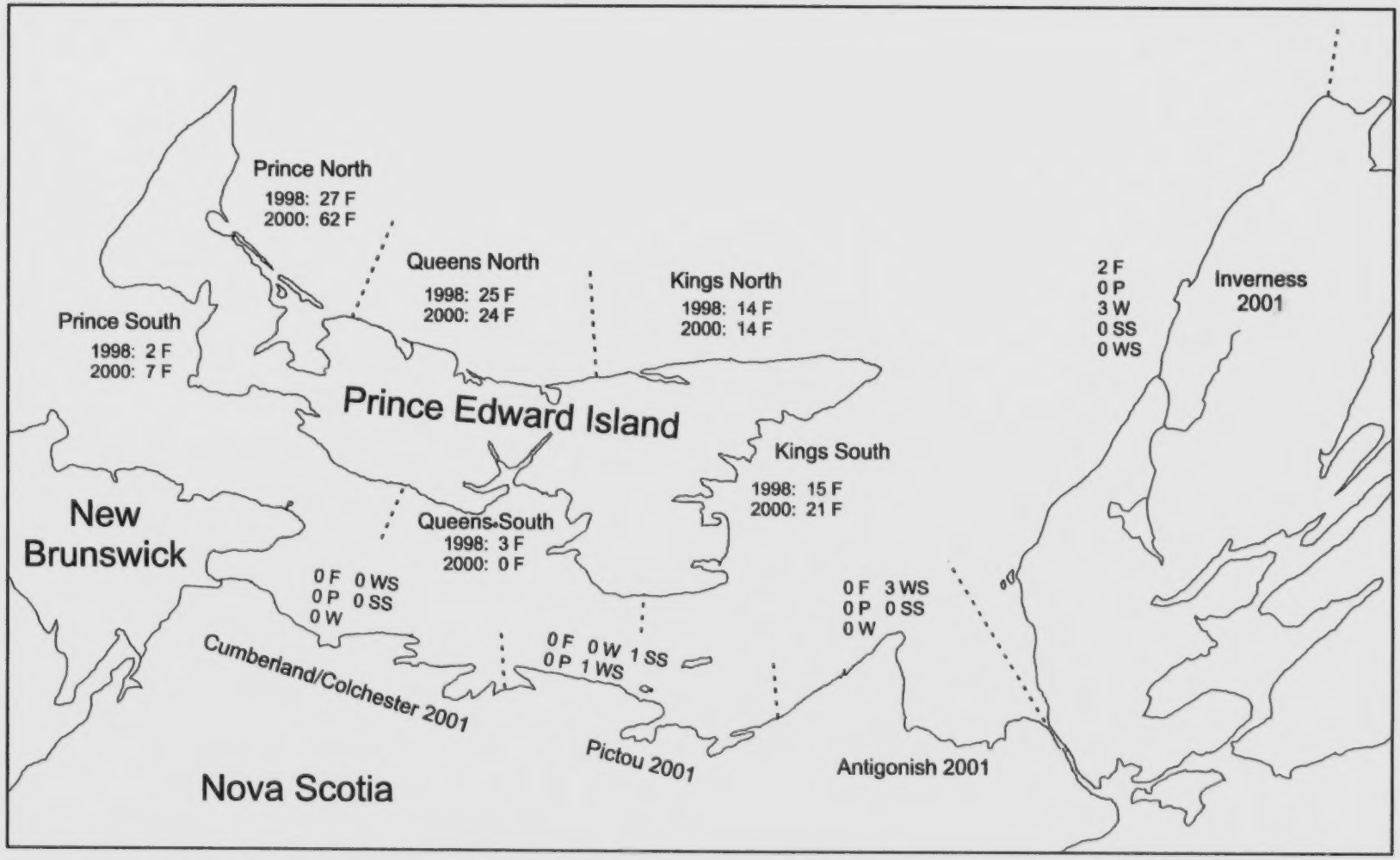


Fig. 13. Number of eel fishing locations reported by commercial fishermen in Prince Edward Island and Gulf Nova Scotia from phone-out surveys conducted in fall 1998 and 2000 in PEI and in fall 2001 in Nova Scotia. Results are given by survey year and by county for each gear type (F - fyke net, W - weir, P - pot, SS - summer spearing, WS - winter spearing).

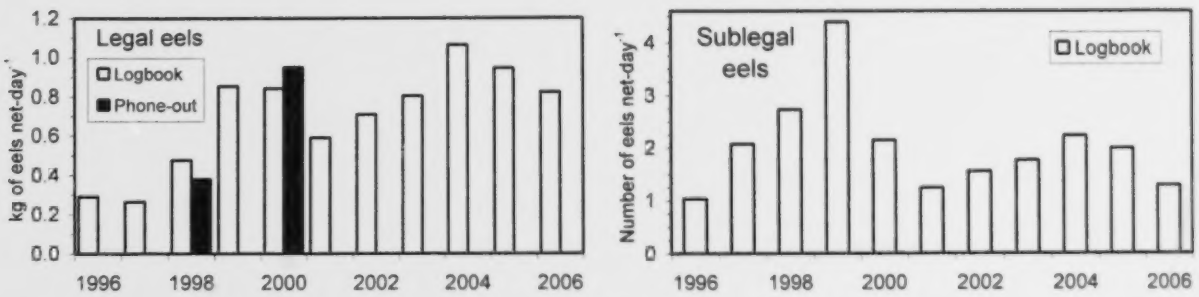


Fig. 14. Catch rates of legal and sublegal eels in fyke nets from logbook surveys (1996-2006) and from phone-out surveys (1998 and 2000) on Prince Edward Island. Catch rates are standardized to a minimum size of 53.0 cm.

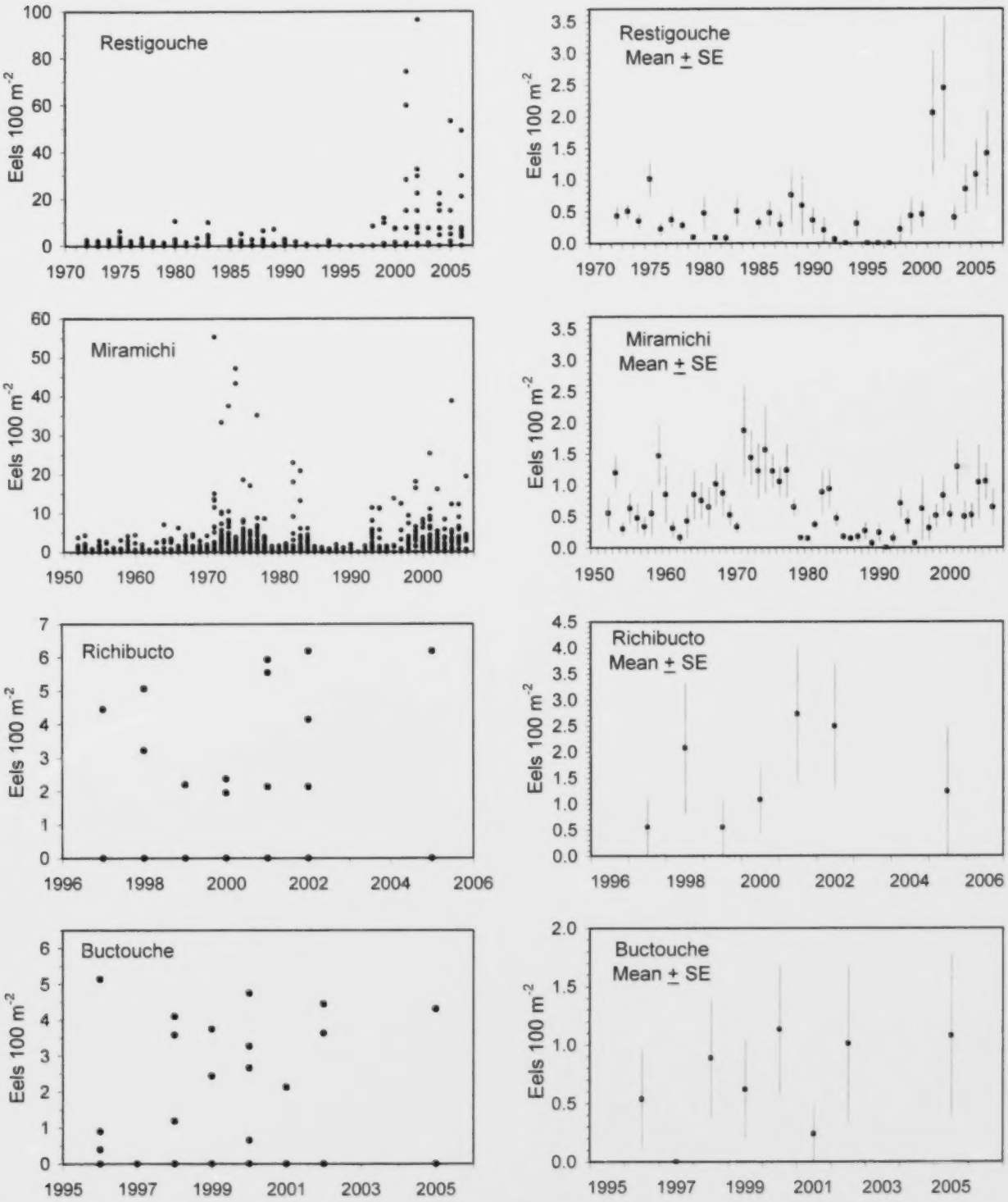
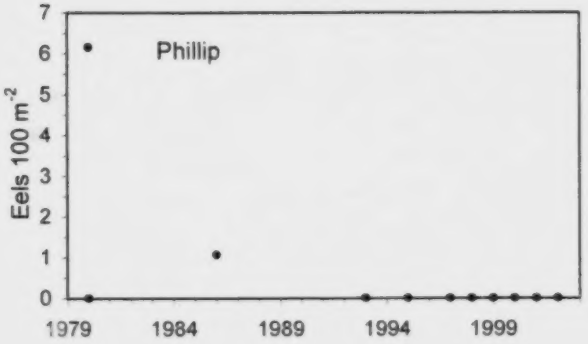
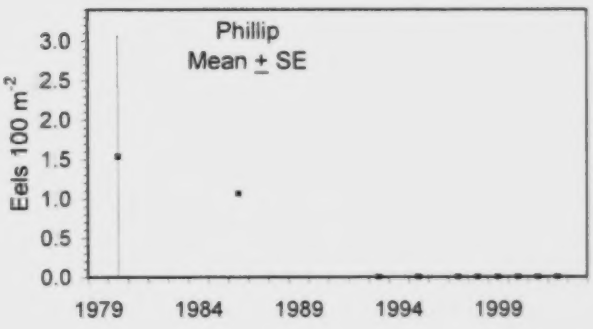
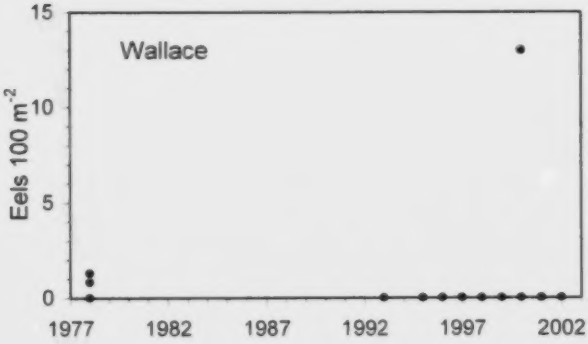
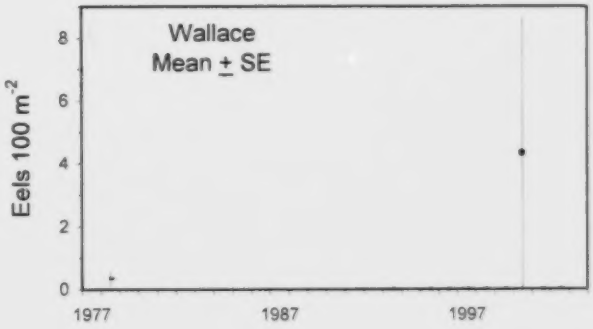


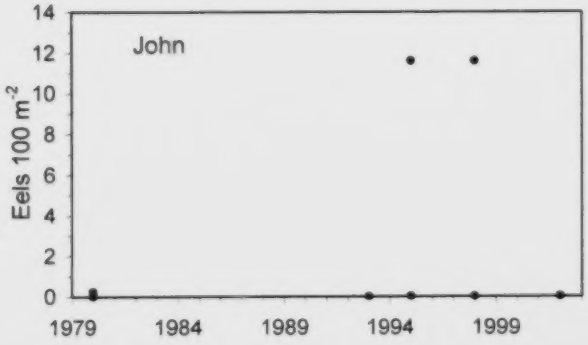
Fig. 15. Scattergrams (left panels) and means ± standard errors (right panels) of densities of American eels in southern Gulf of St. Lawrence rivers, estimated from electrofishing surveys.

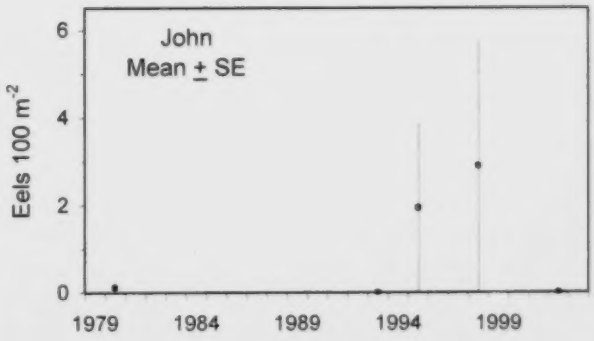


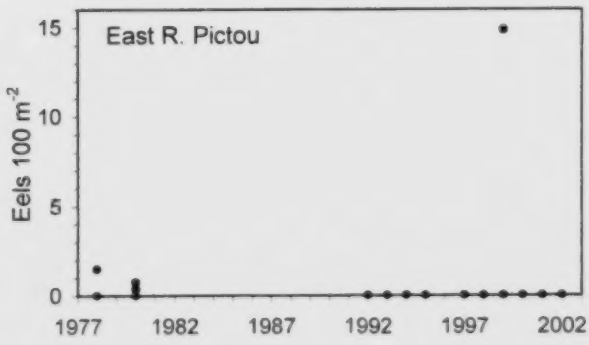












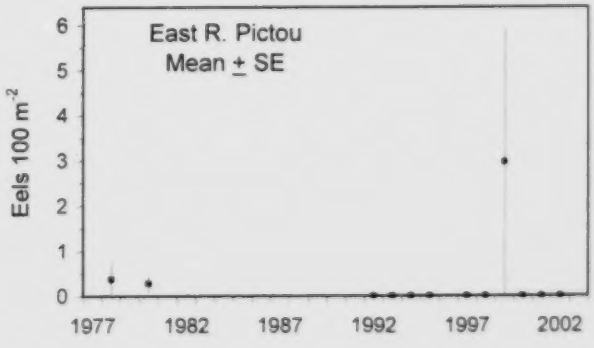
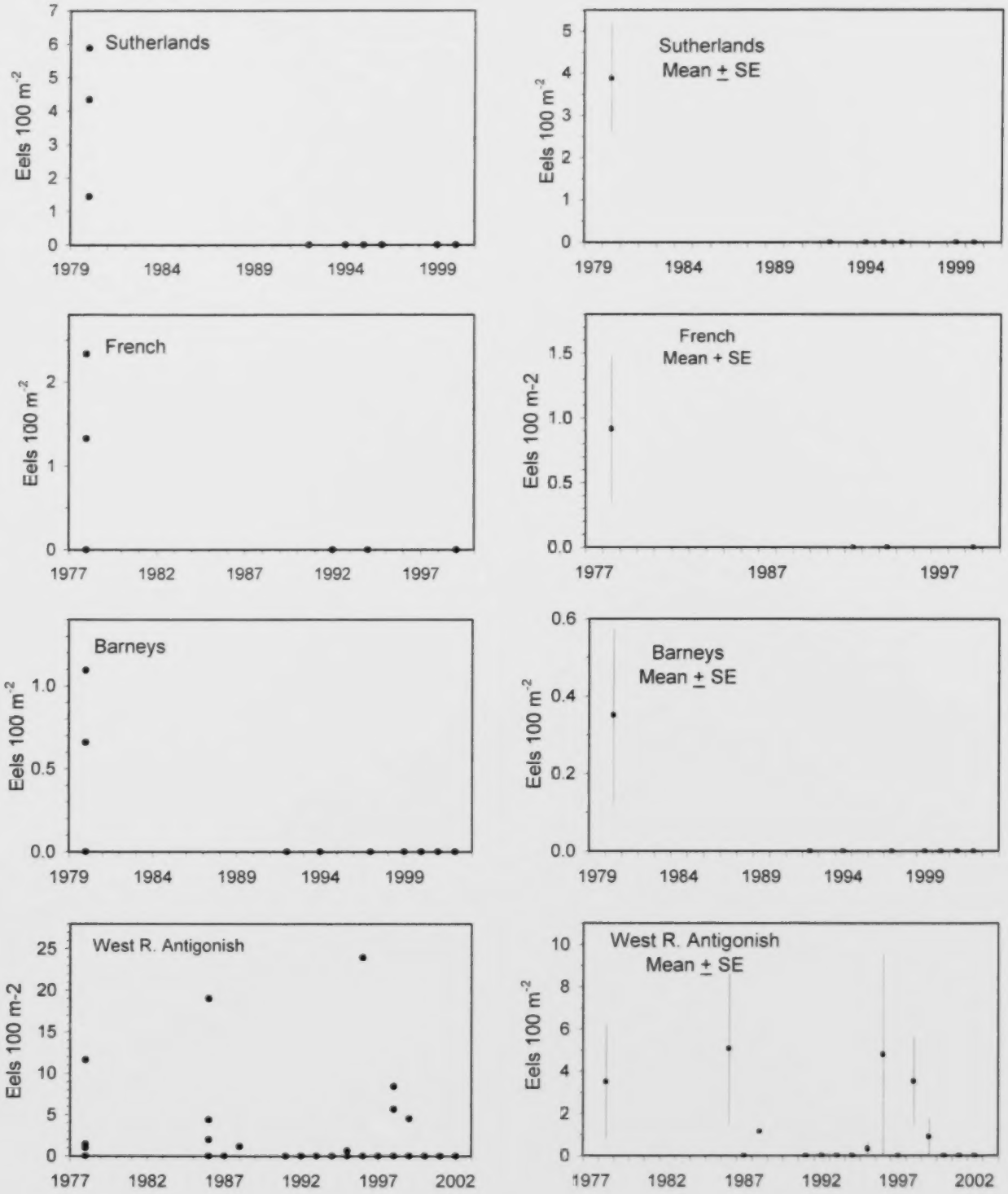


Fig. 15 (continued)



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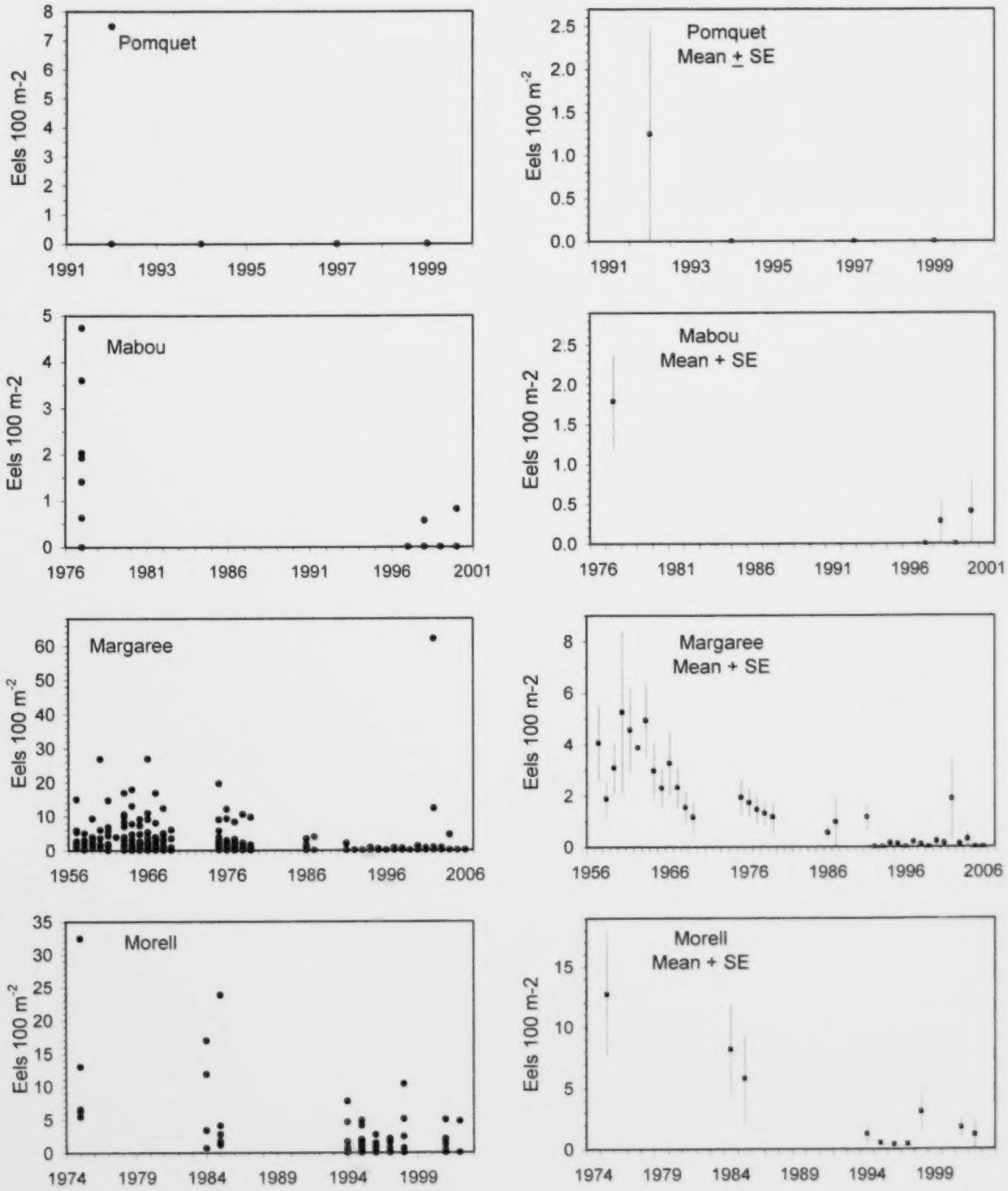

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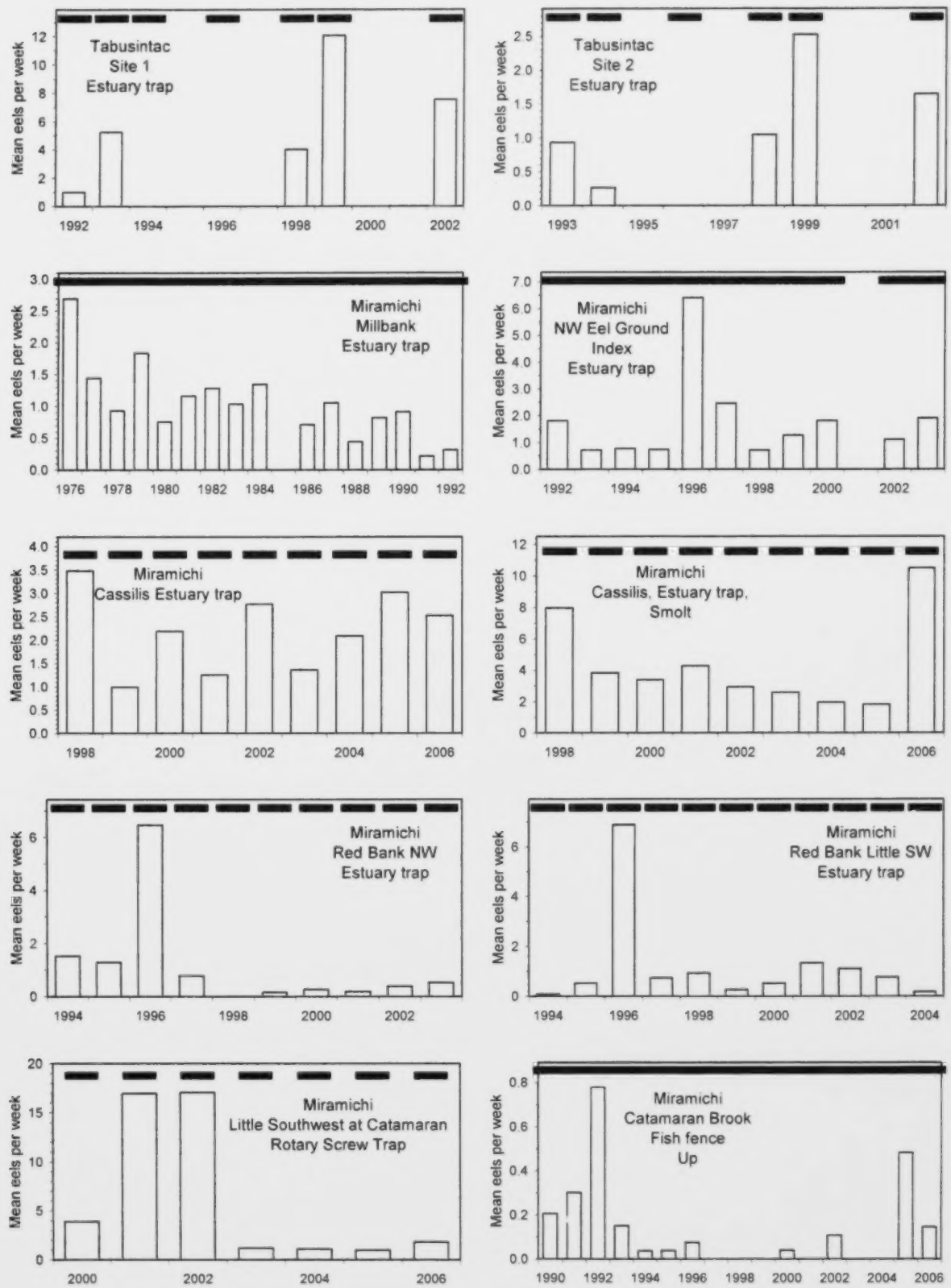


Fig. 16. Yearly means of weekly eel counts in fishing gears which intercept upstream and downstream movement, in the southern Gulf of St. Lawrence, 1976-2006. Horizontal bars indicate the years for which data are available.

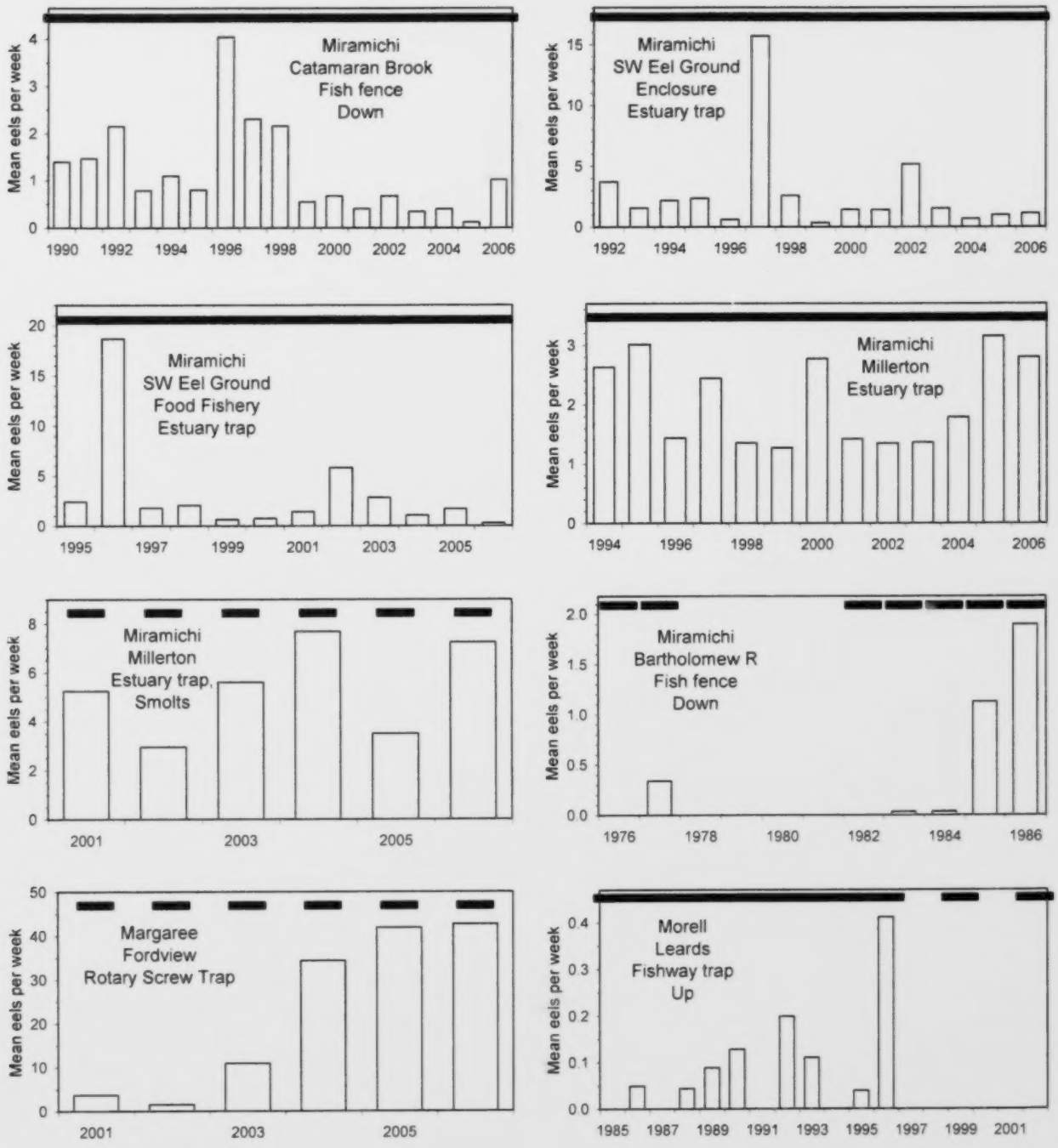


Fig. 16 (continued)

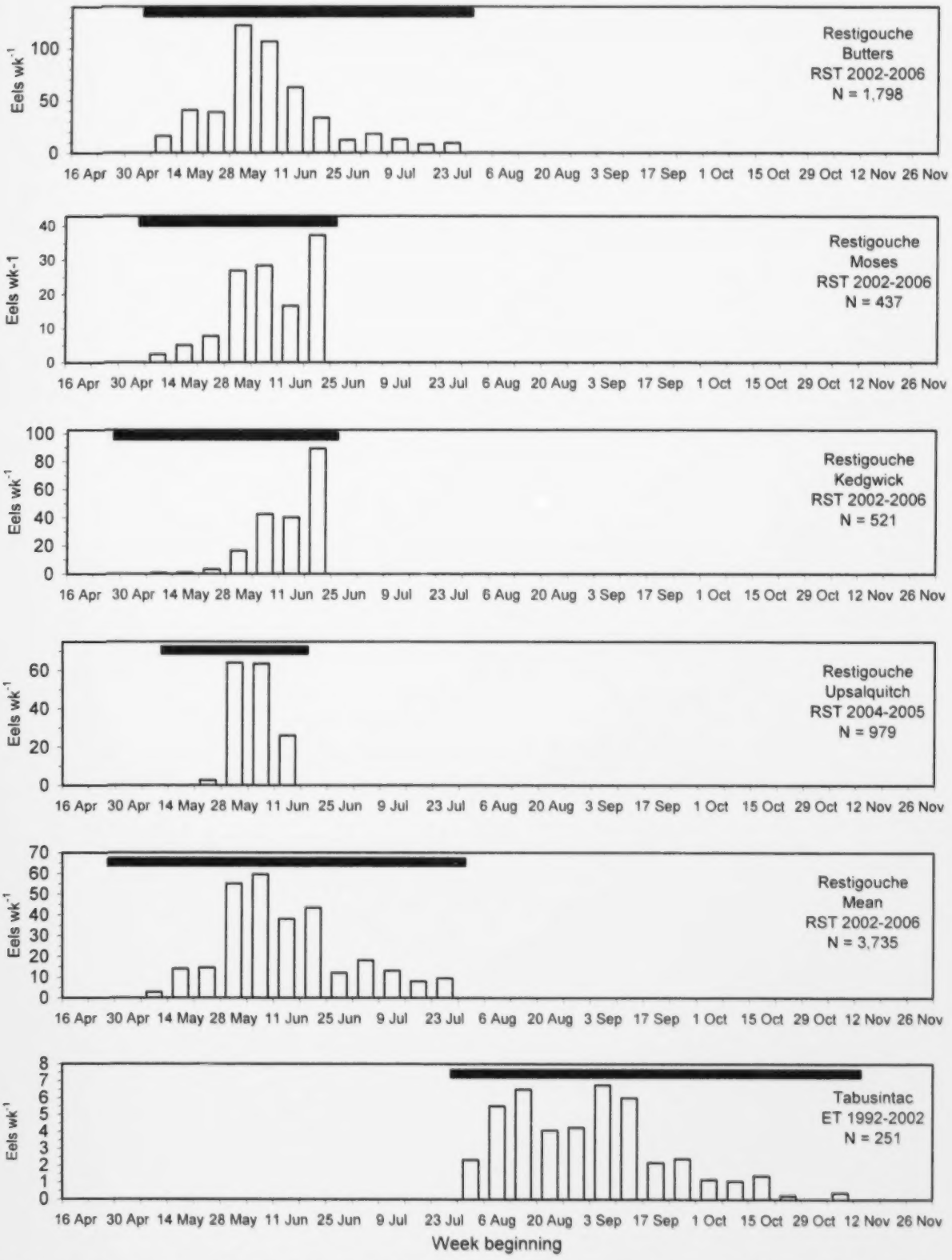


Fig. 17. Mean weekly eel counts in fishing gears which intercept upstream and downstream movement, in the southern Gulf of St. Lawrence, 1976-2006. Horizontal bars indicate the weeks for which data are available. ET - estuary trap, ETS - estuary trap rigged for smolts, FF - fish fence, FN - fyke nets deployed across the stream, RST - rotary screw trap, RT - ramp trap.

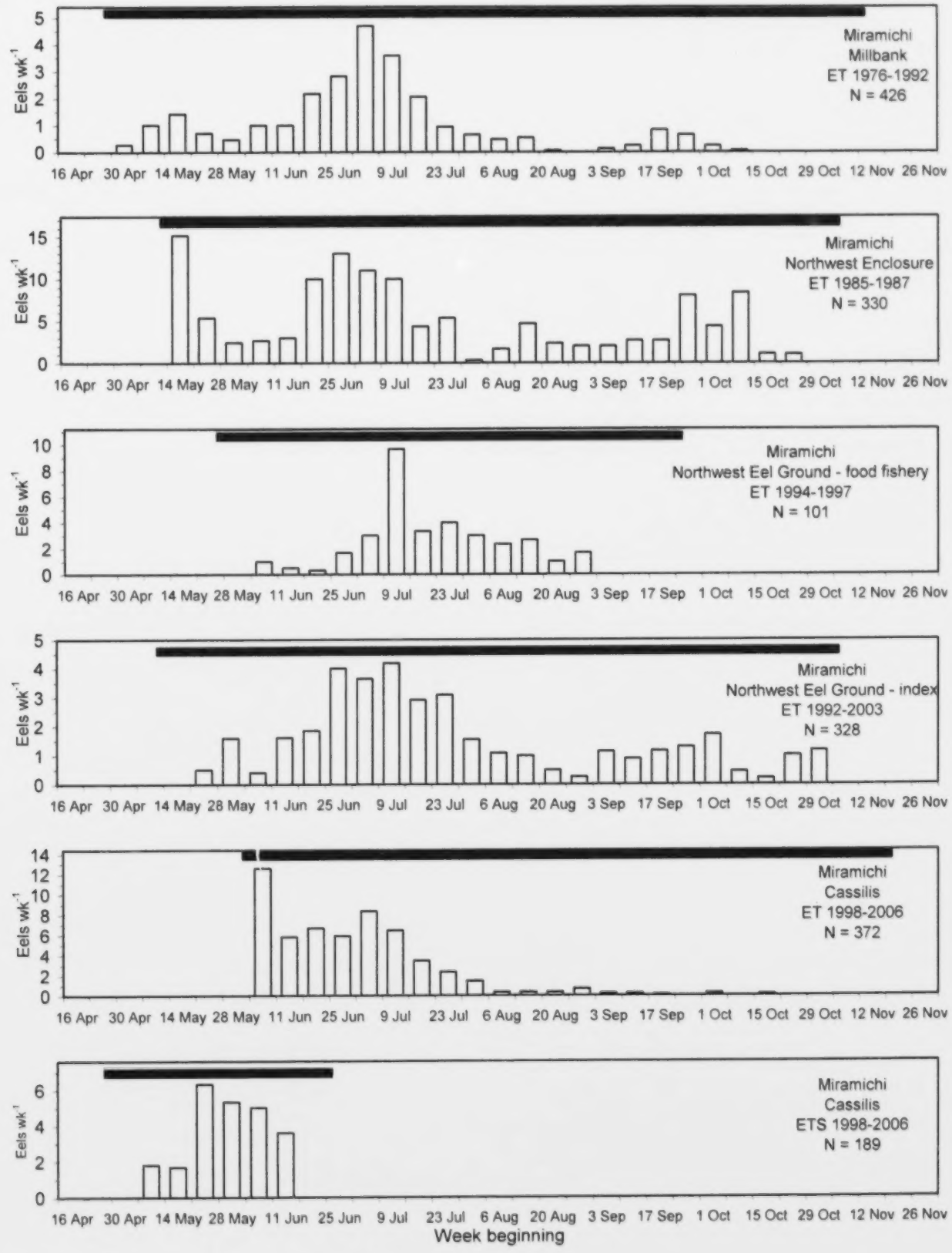


Fig. 17 (continued)

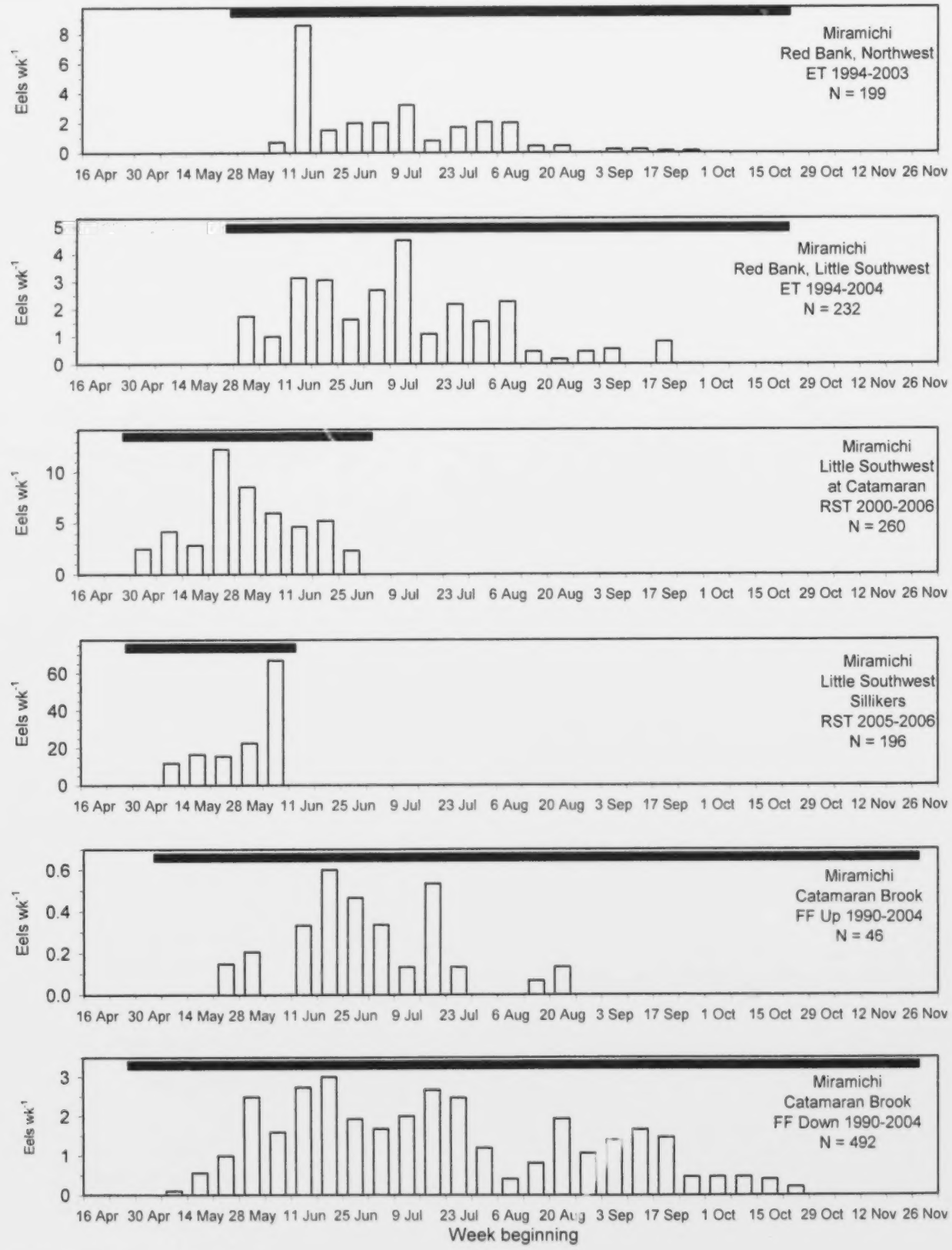


Fig. 17 (continued)

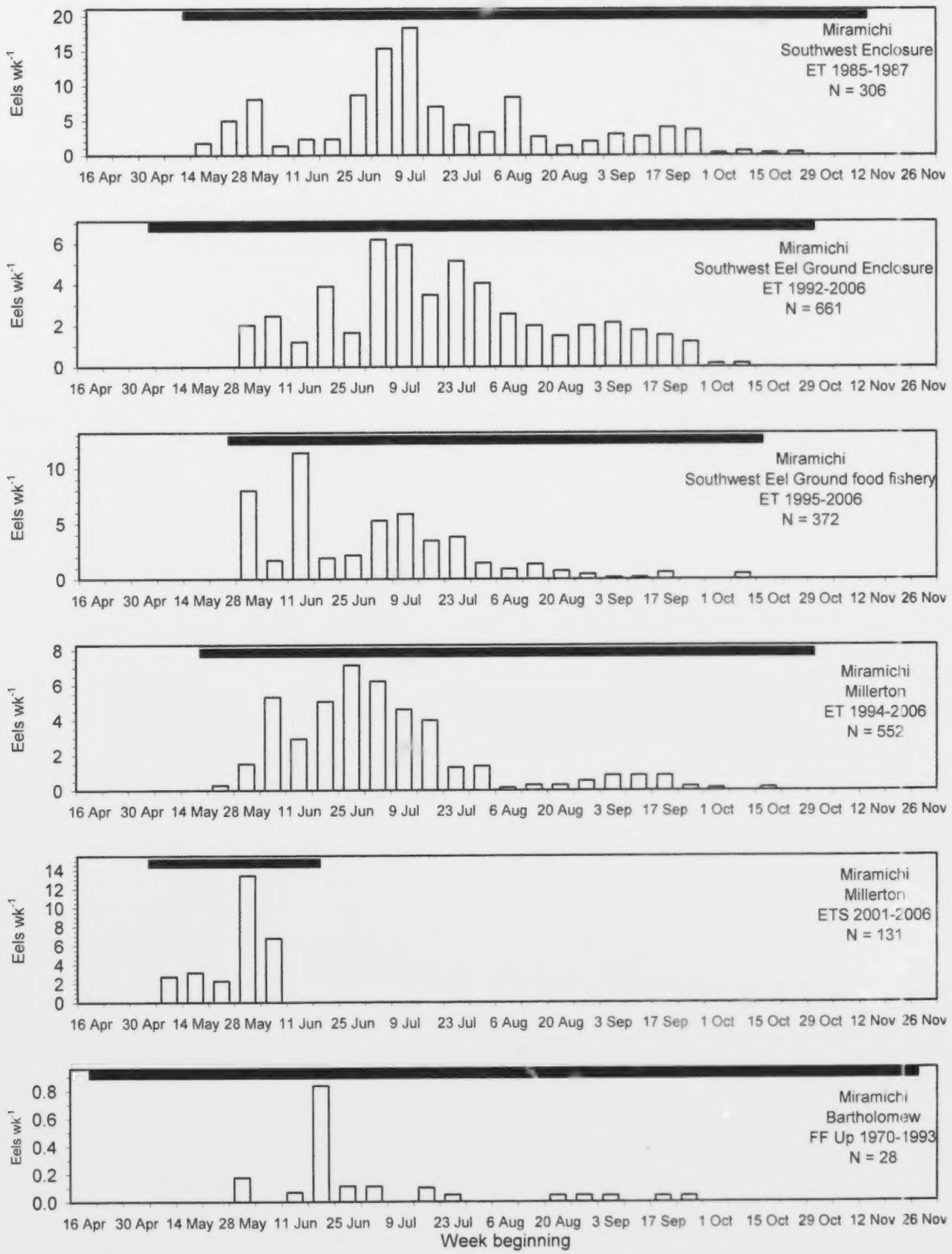
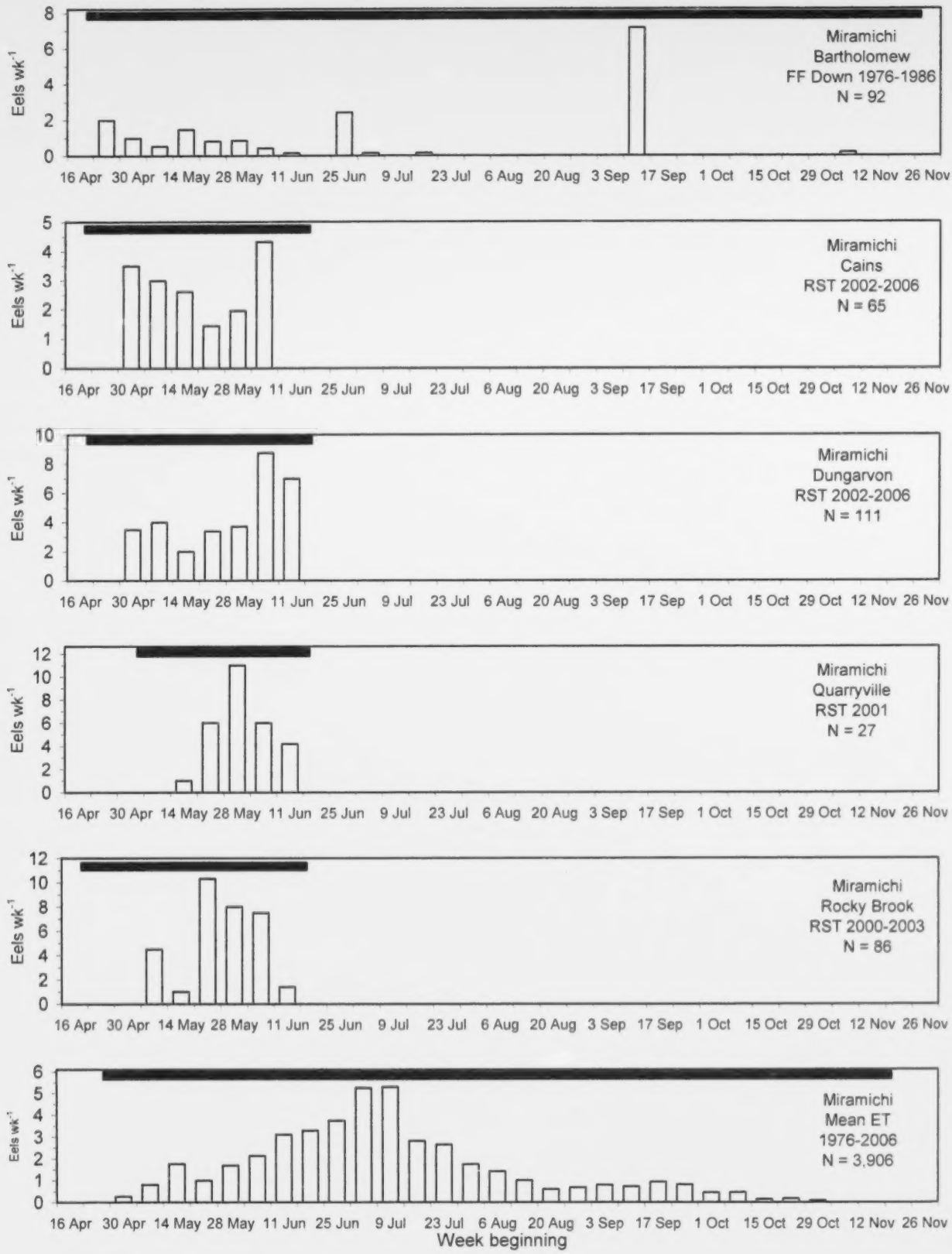


Fig. 17 (continued)



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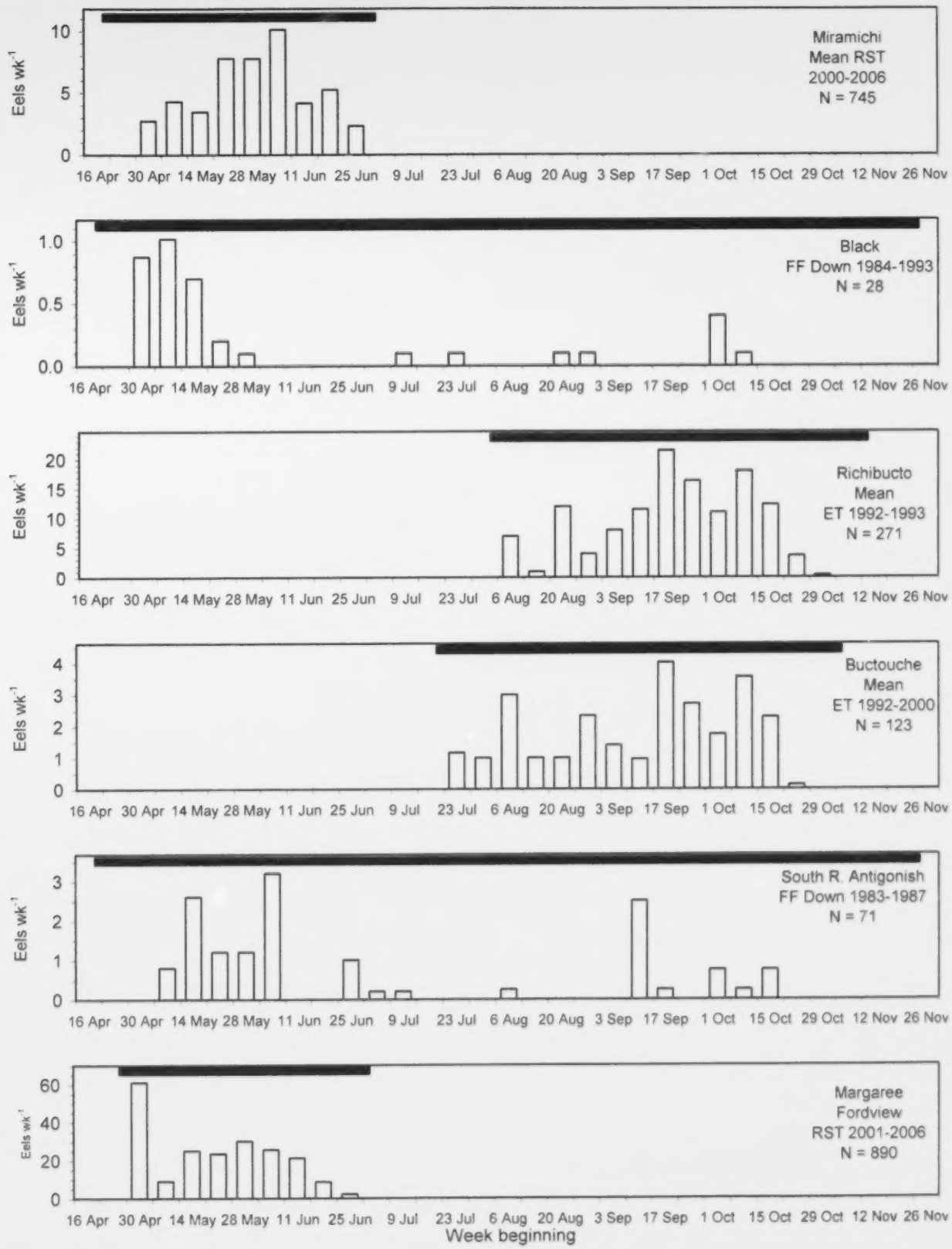

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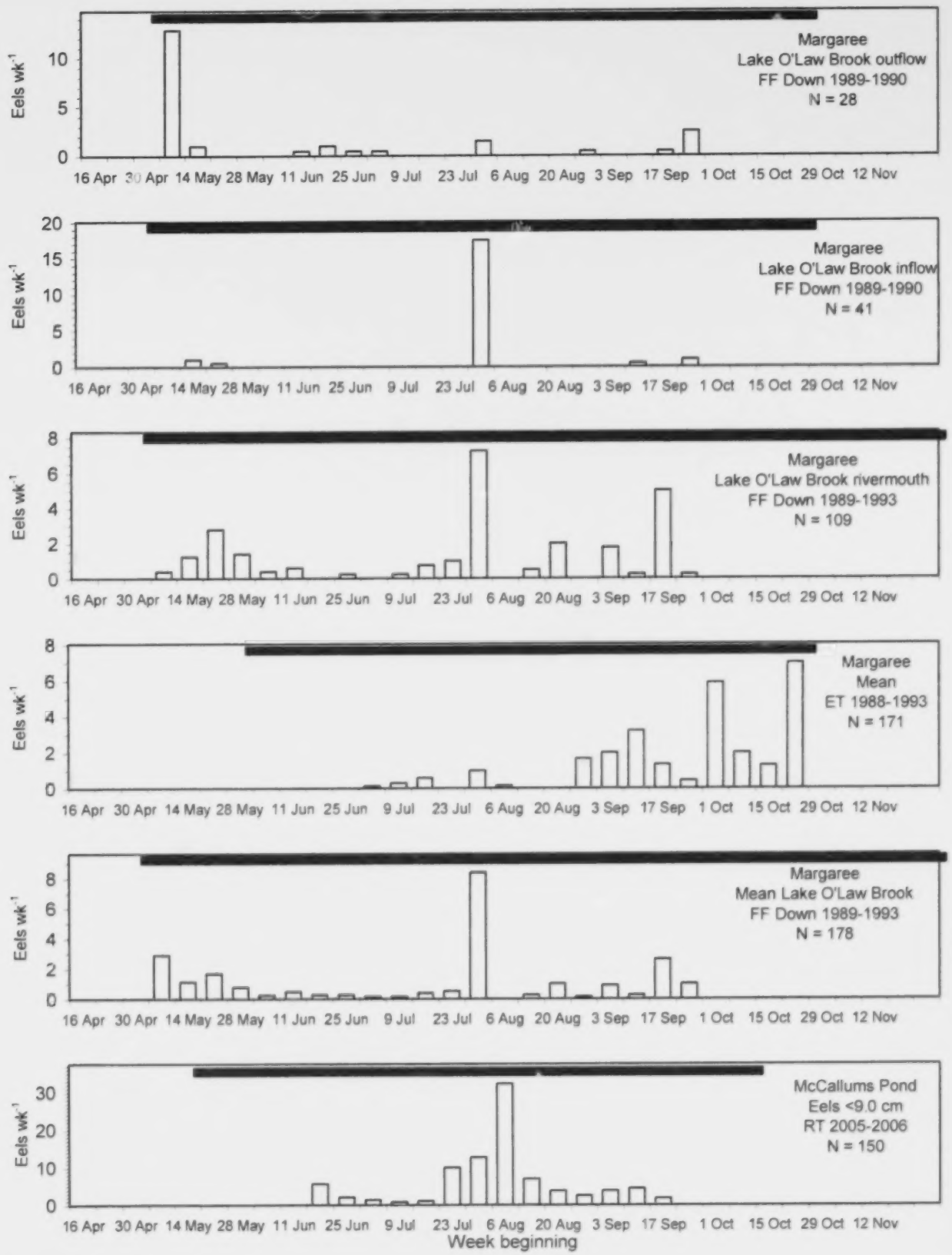

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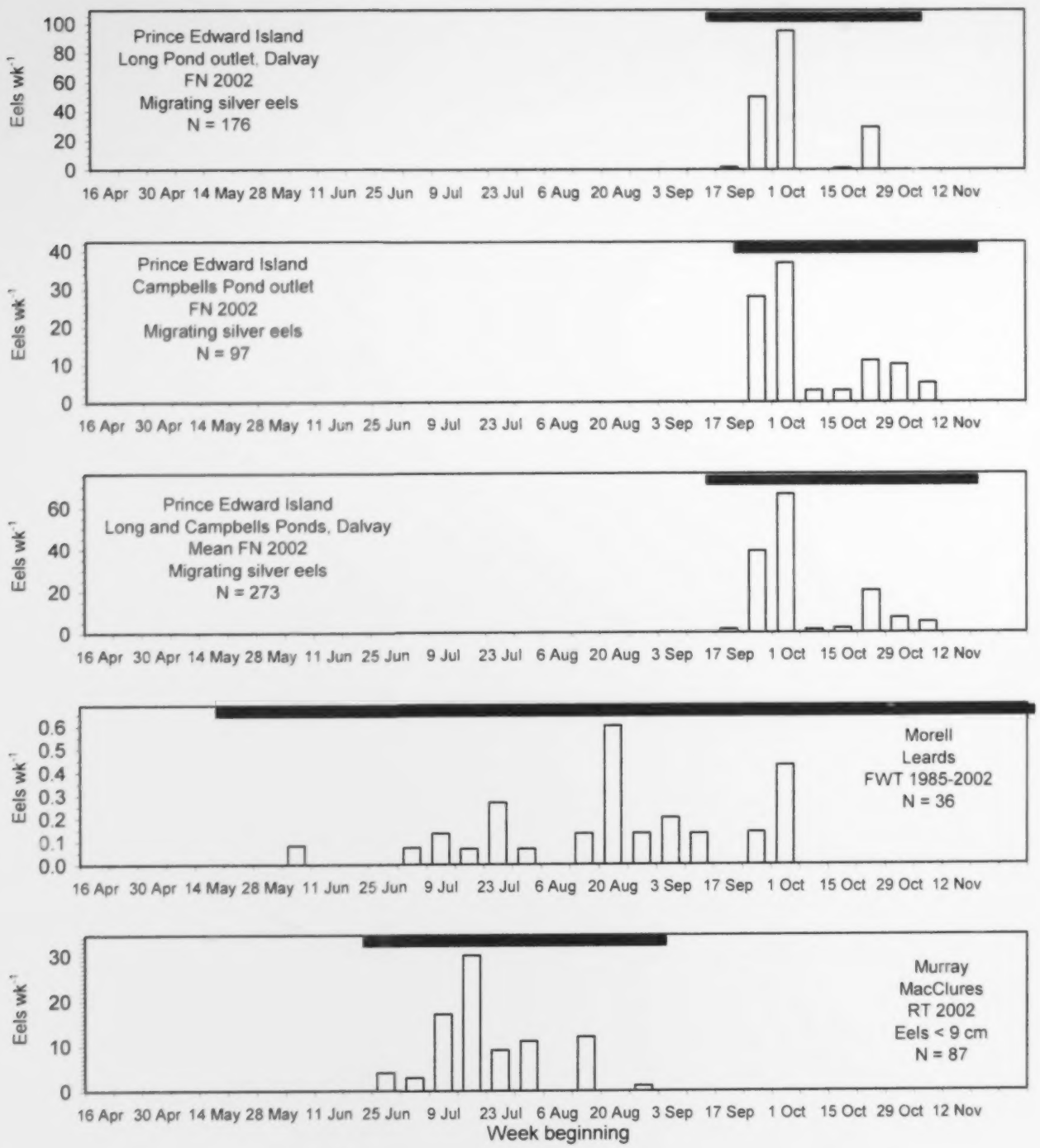

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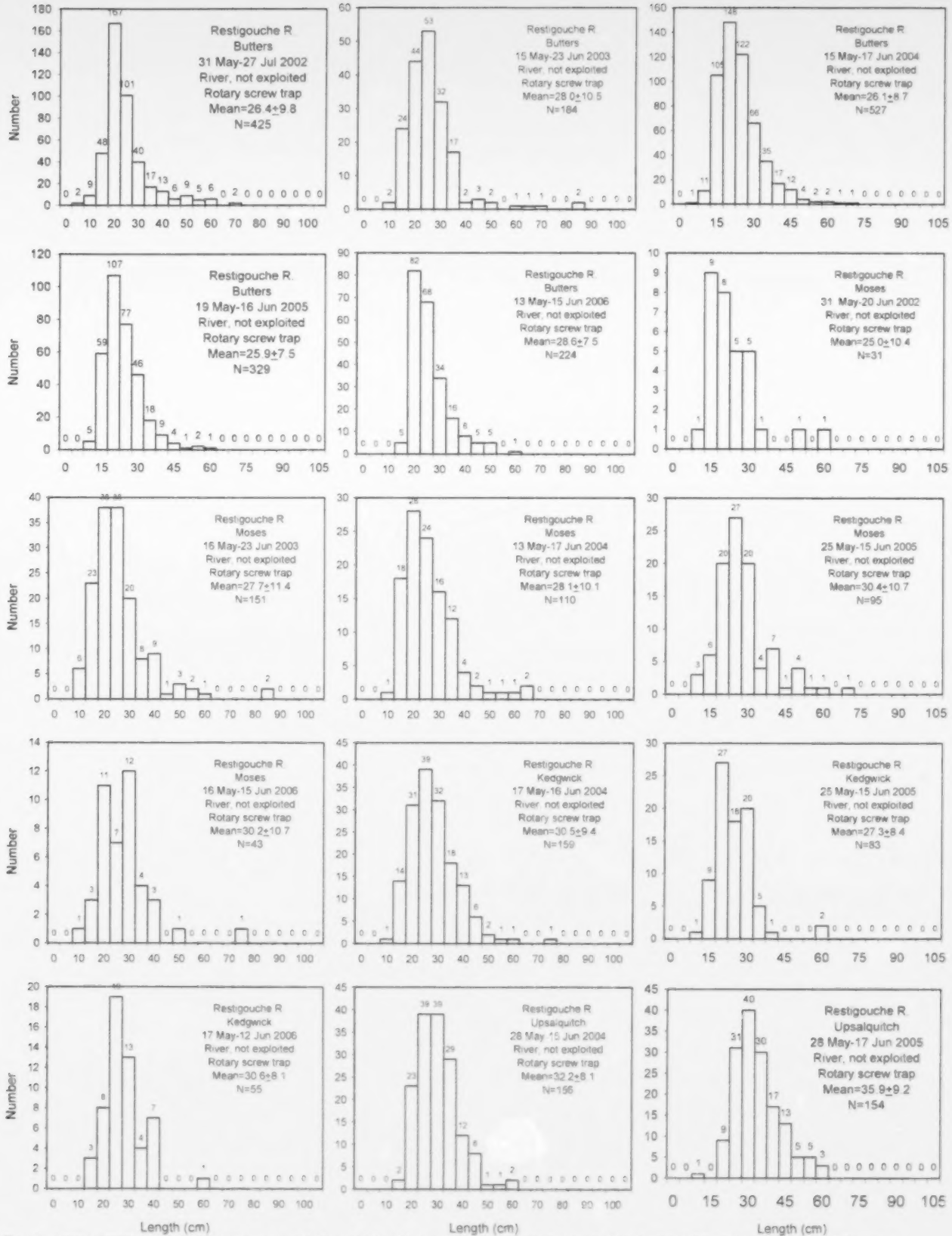


Fig. 18. Length frequencies of eels sampled in the southern Gulf of St. Lawrence, by location and year. Dates on which samples were obtained, habitat type, exploitation status, gear type, mean length±SD, and sample size are given in each panel.

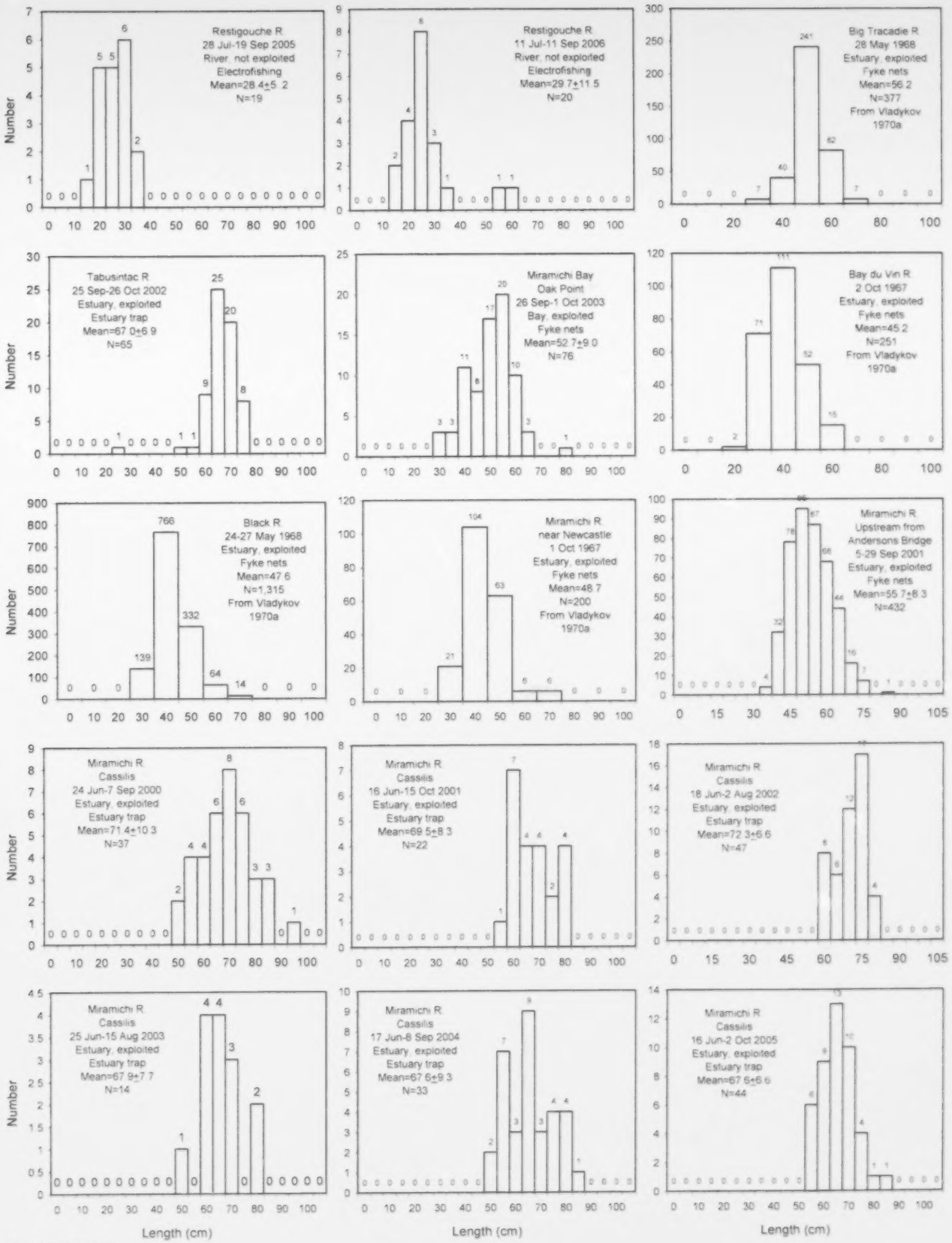


Fig. 18 (continued)

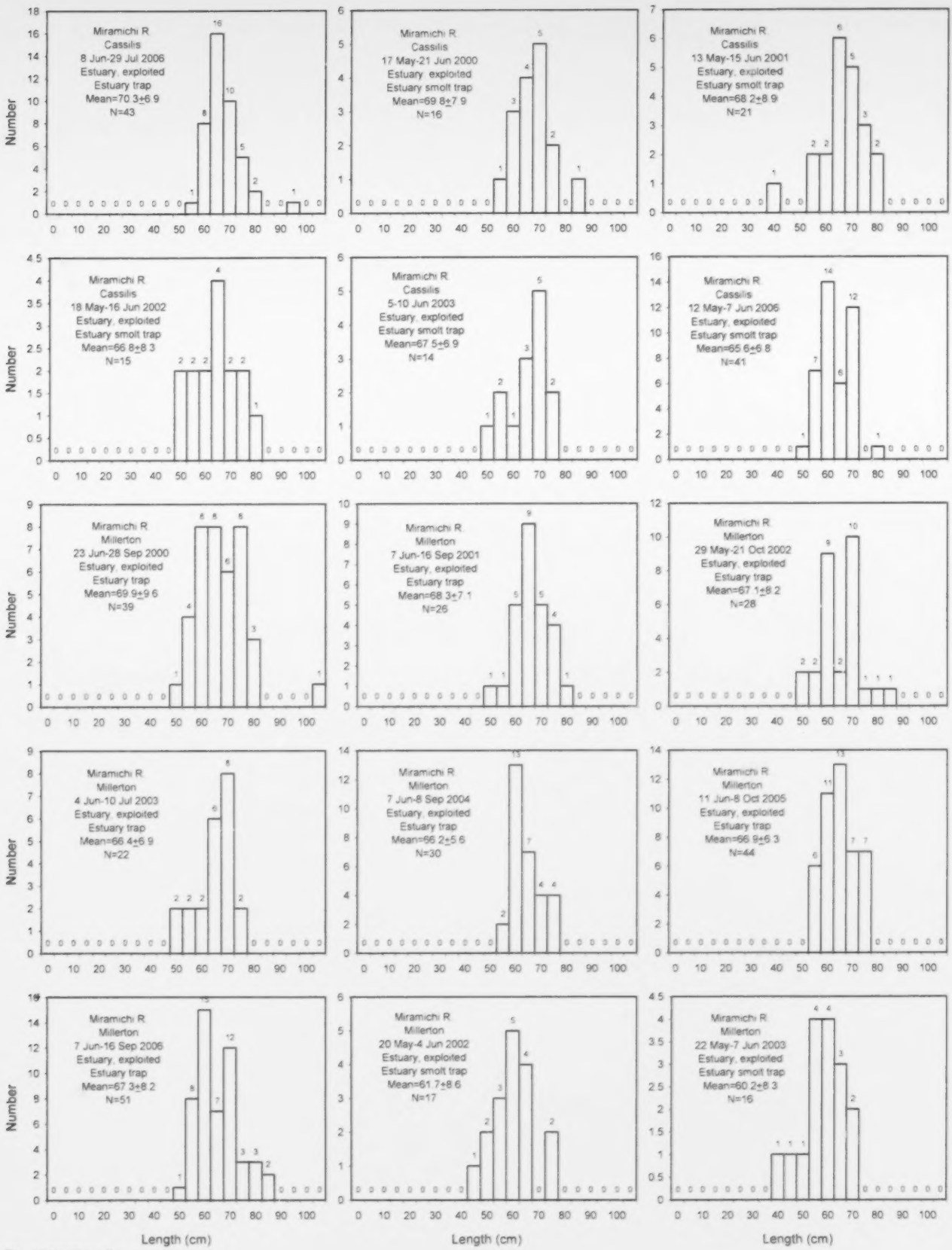


Fig. 18 (continued)

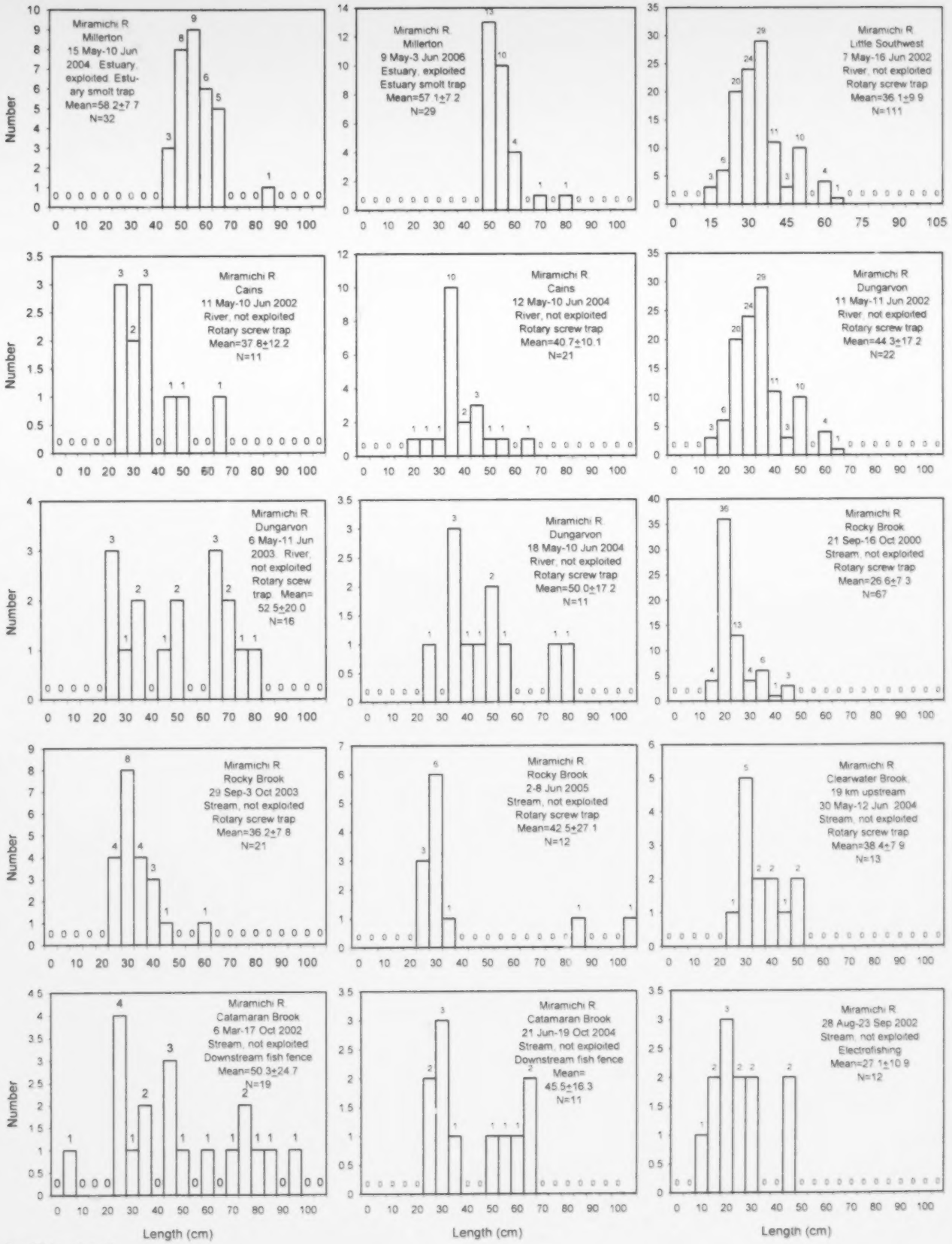
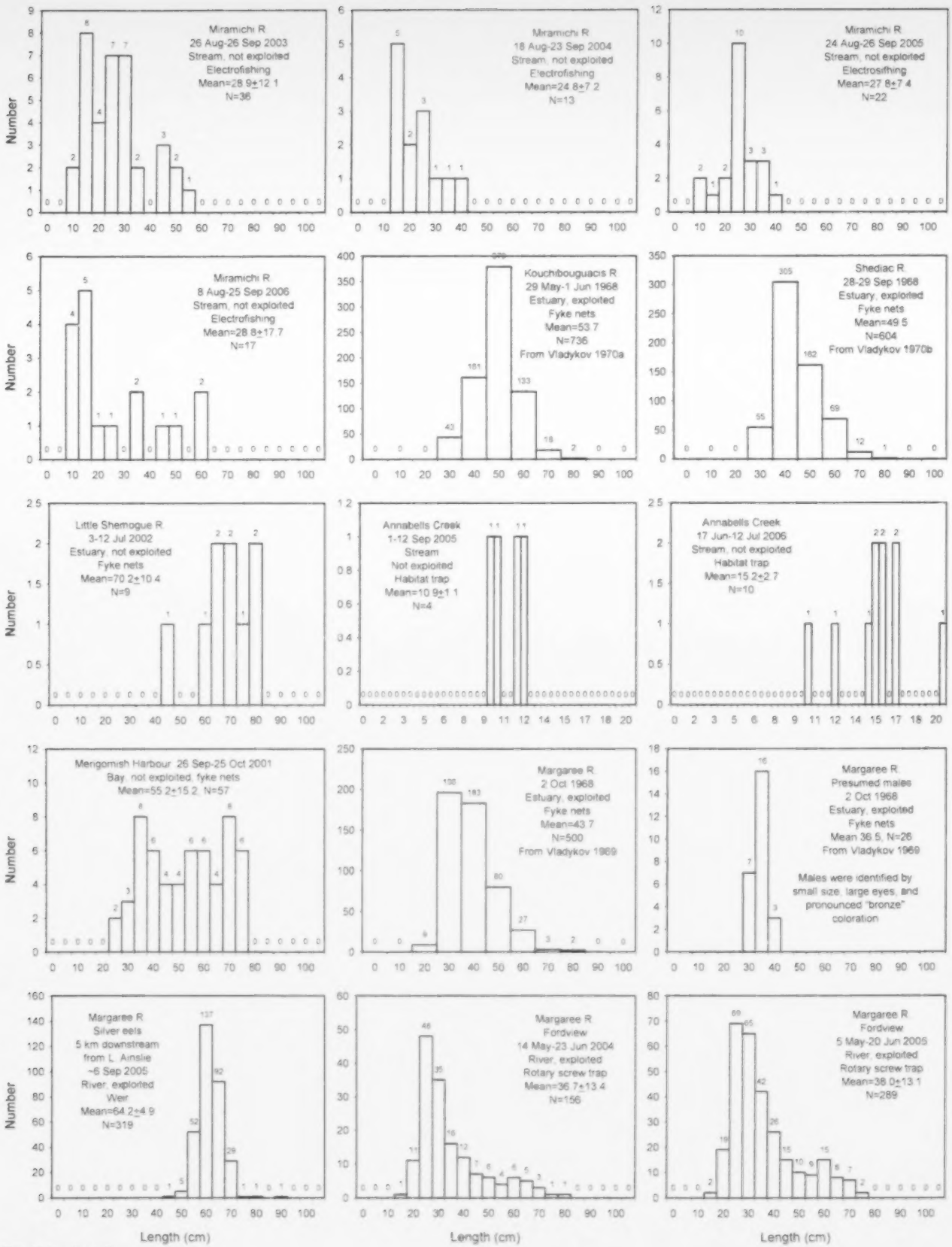


Fig. 18 (continued)



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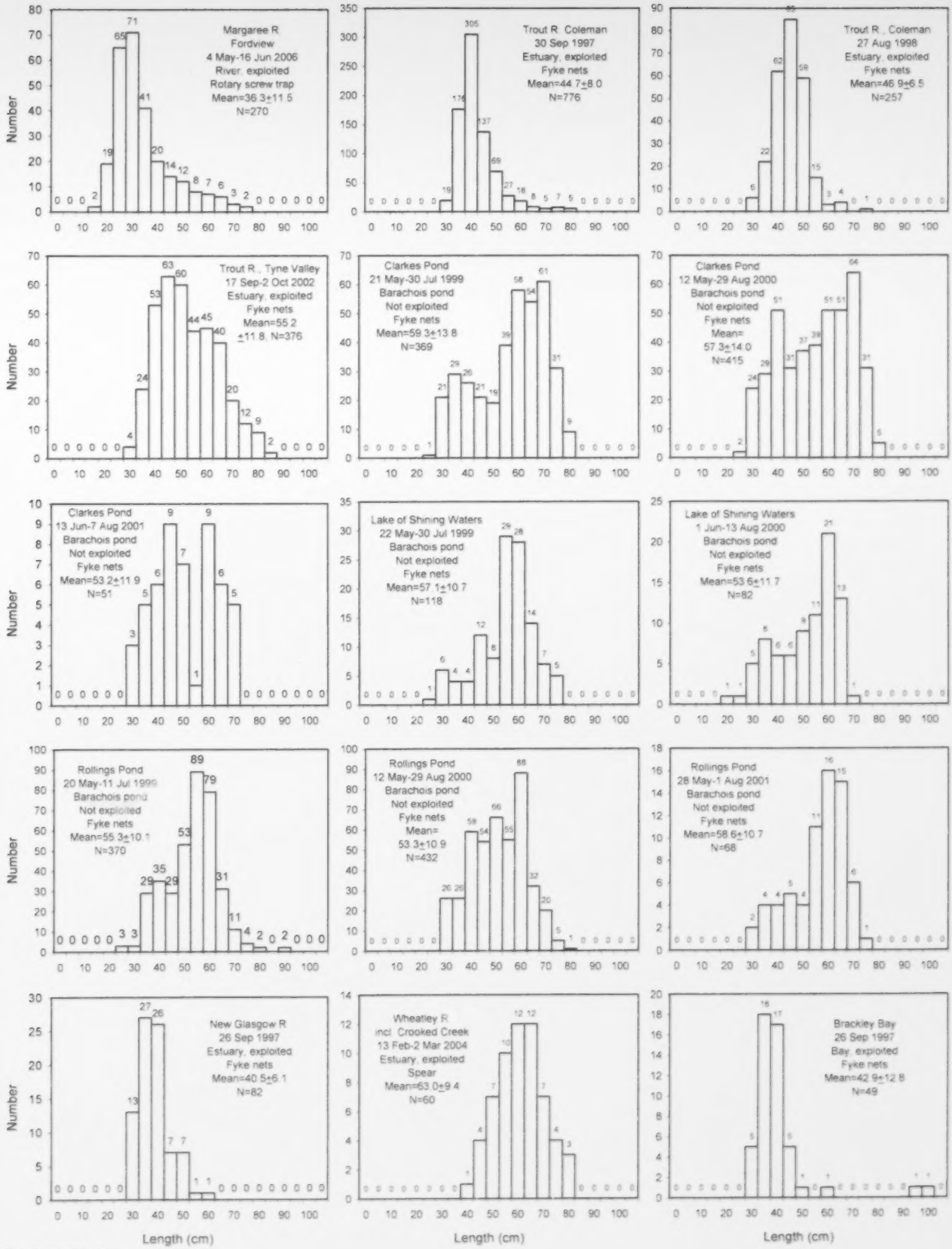

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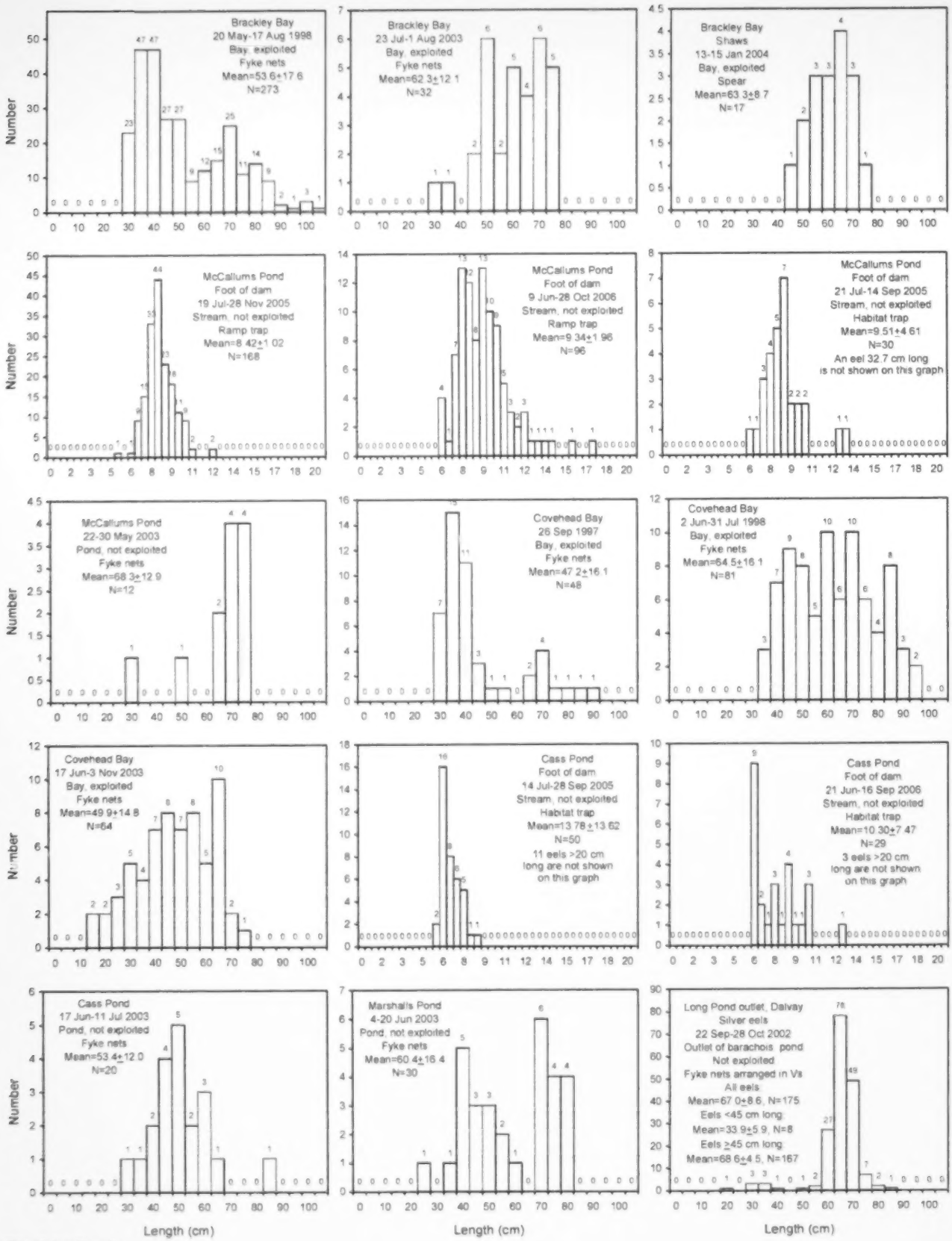

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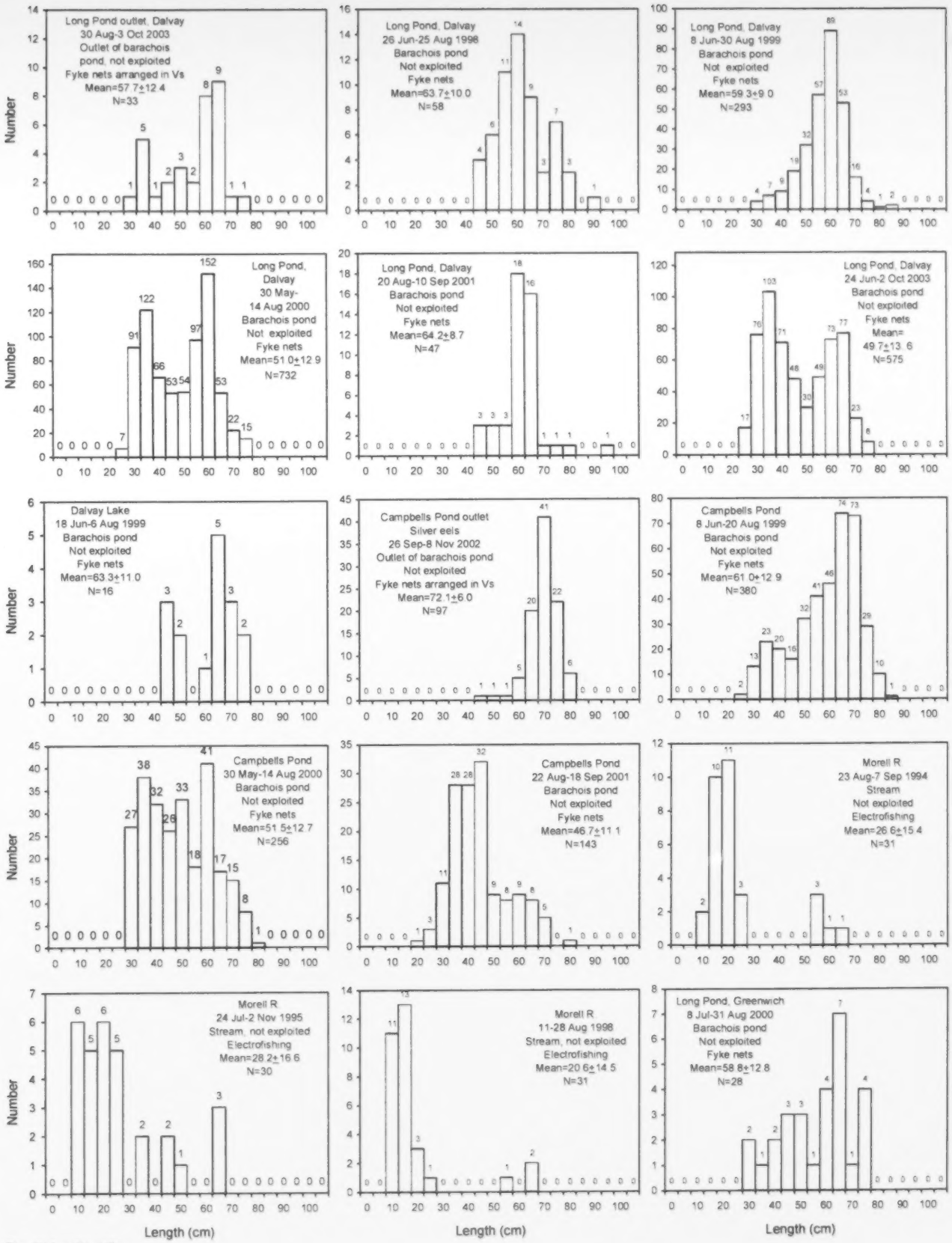

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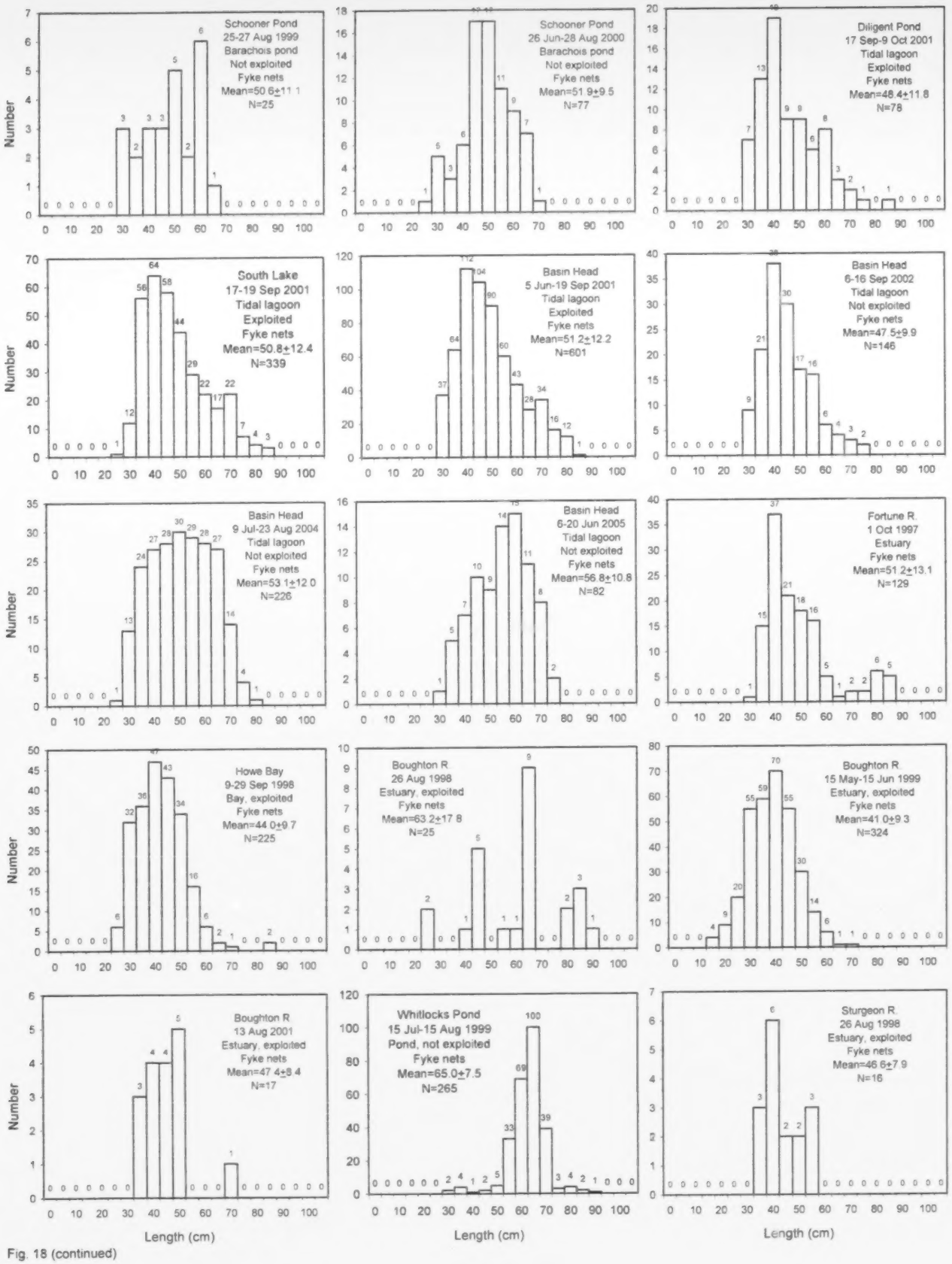

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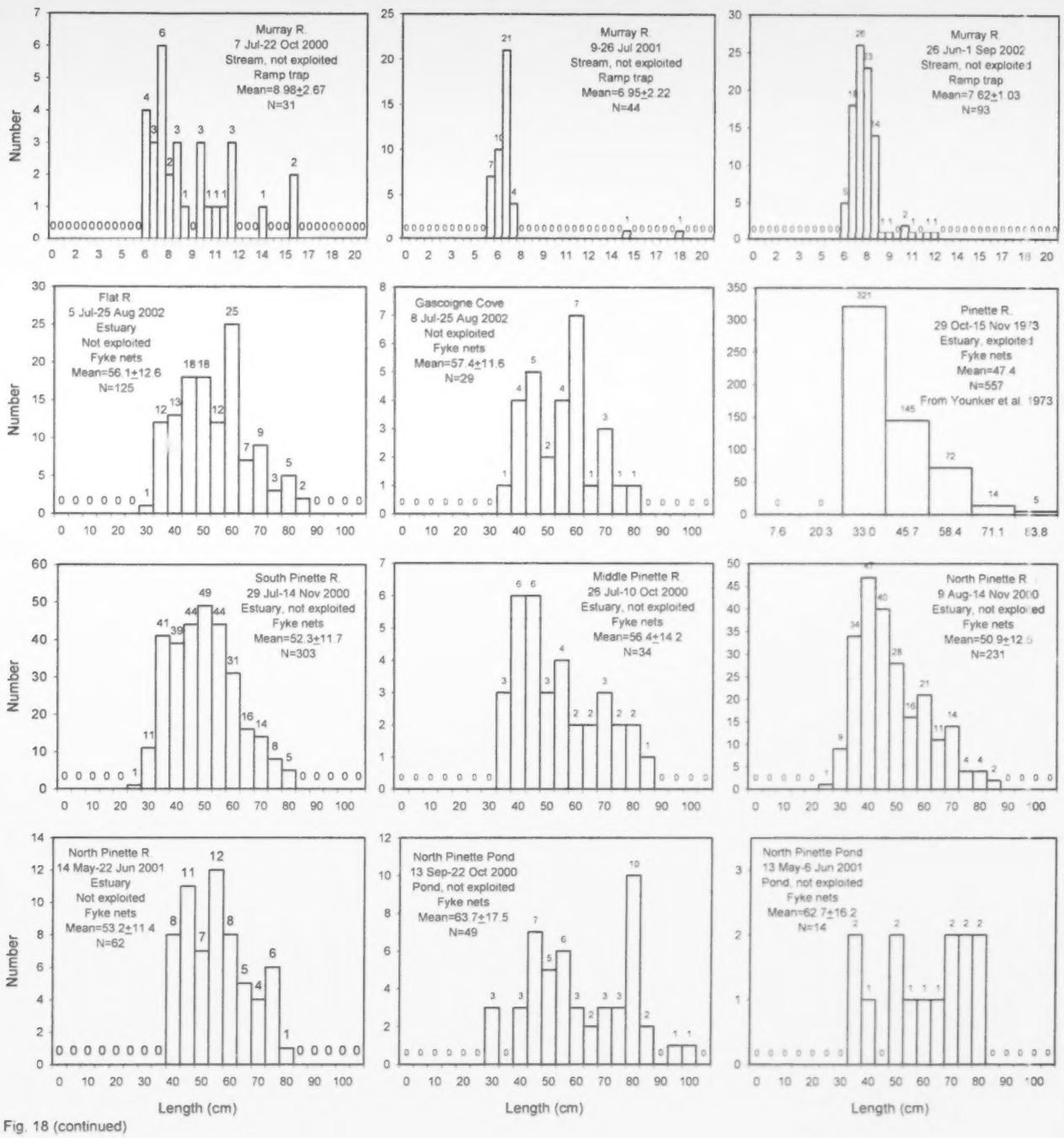

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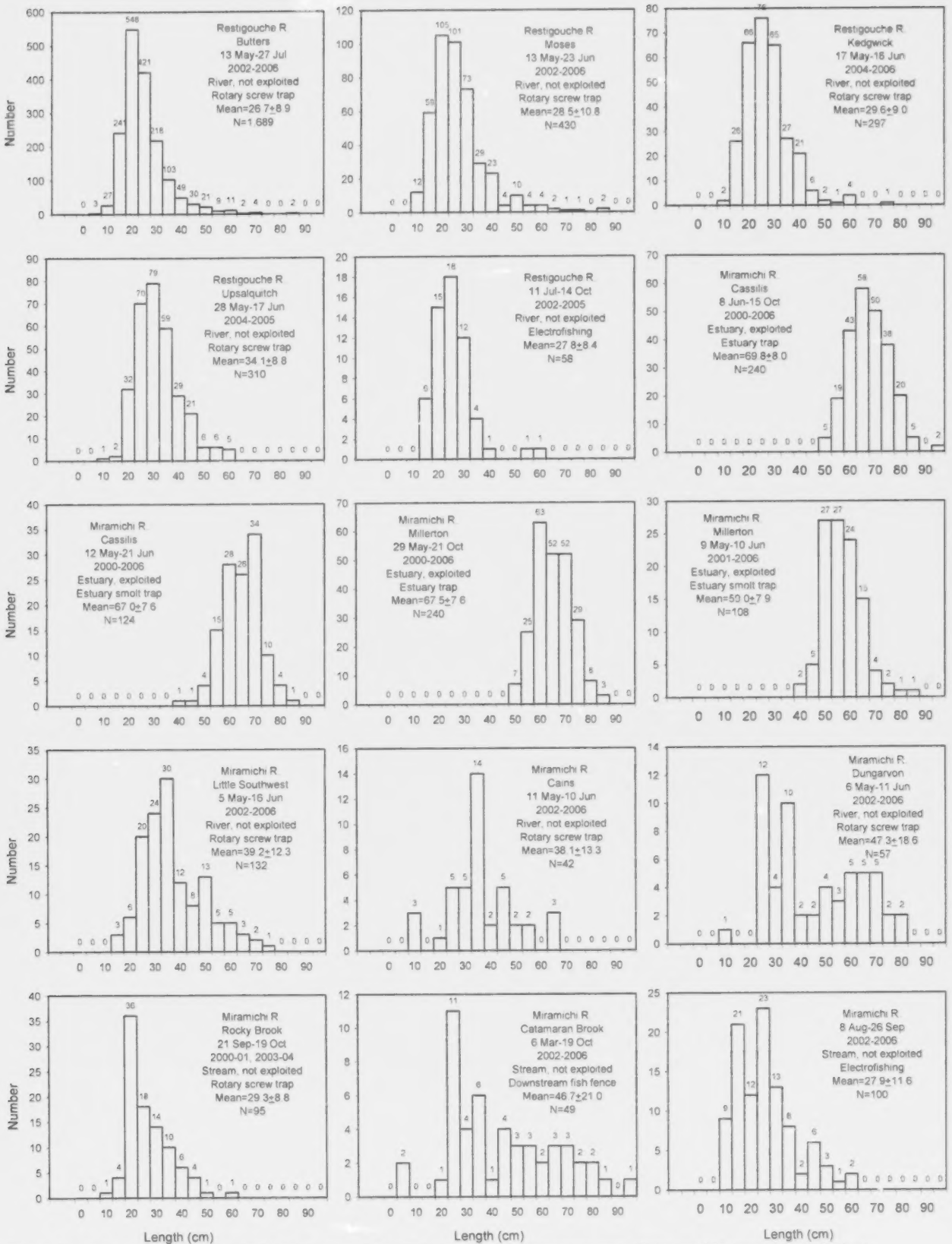


Fig. 19. Length frequencies of eels sampled in the southern Gulf of St. Lawrence, by location across years. Dates on which samples were obtained, habitat type, exploitation status, gear type, mean length±SD, and sample size are given in each panel.

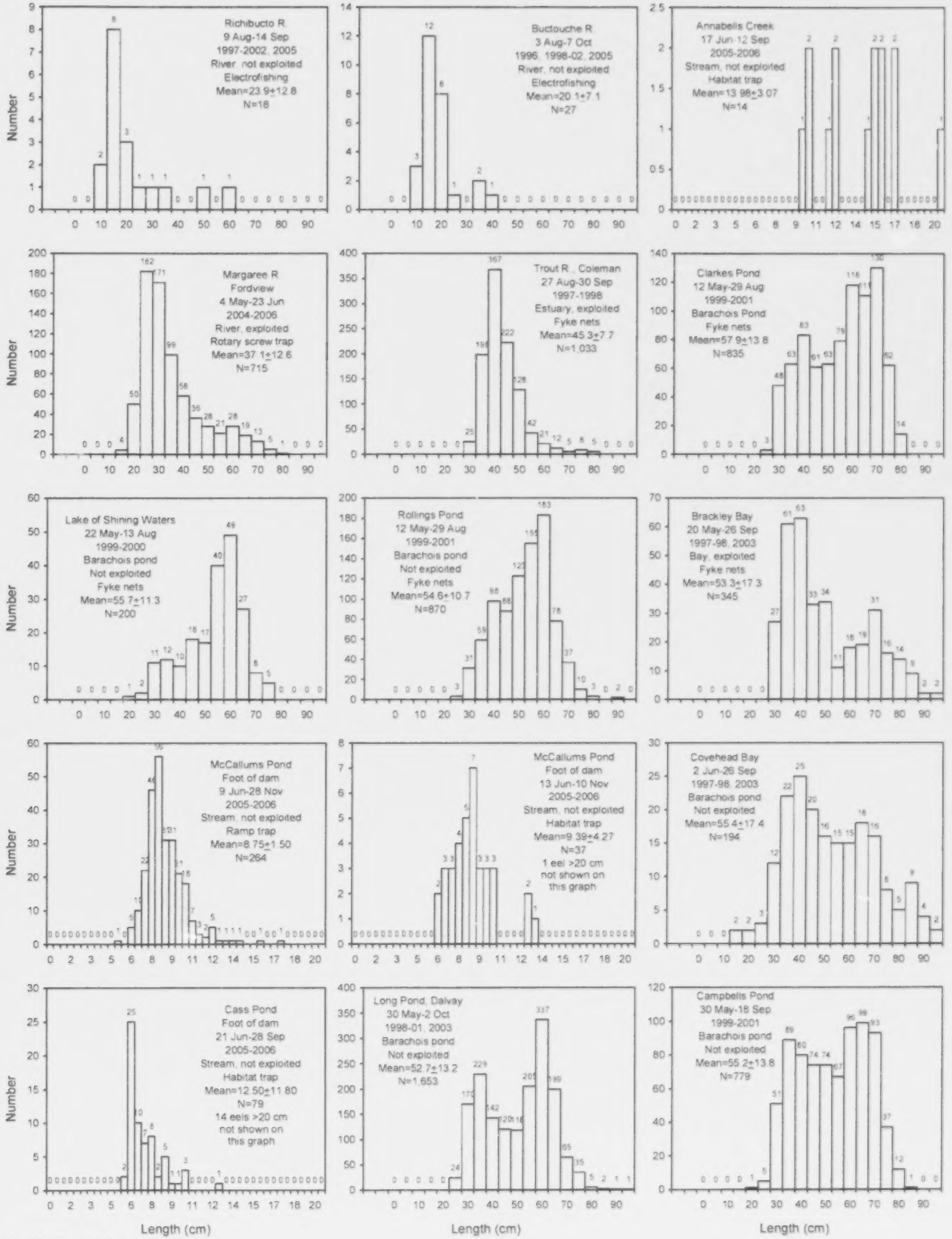
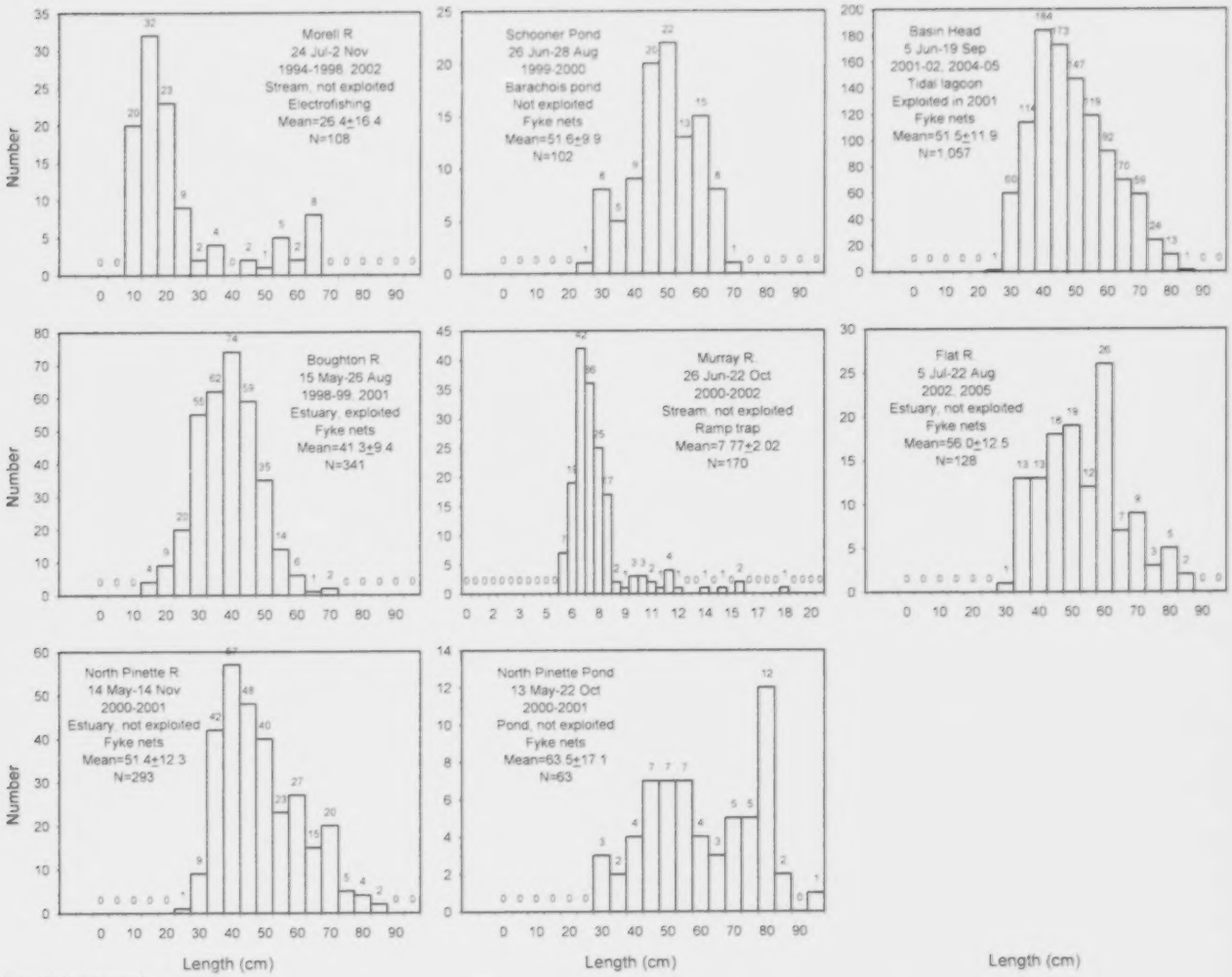


Fig. 19 (continued)



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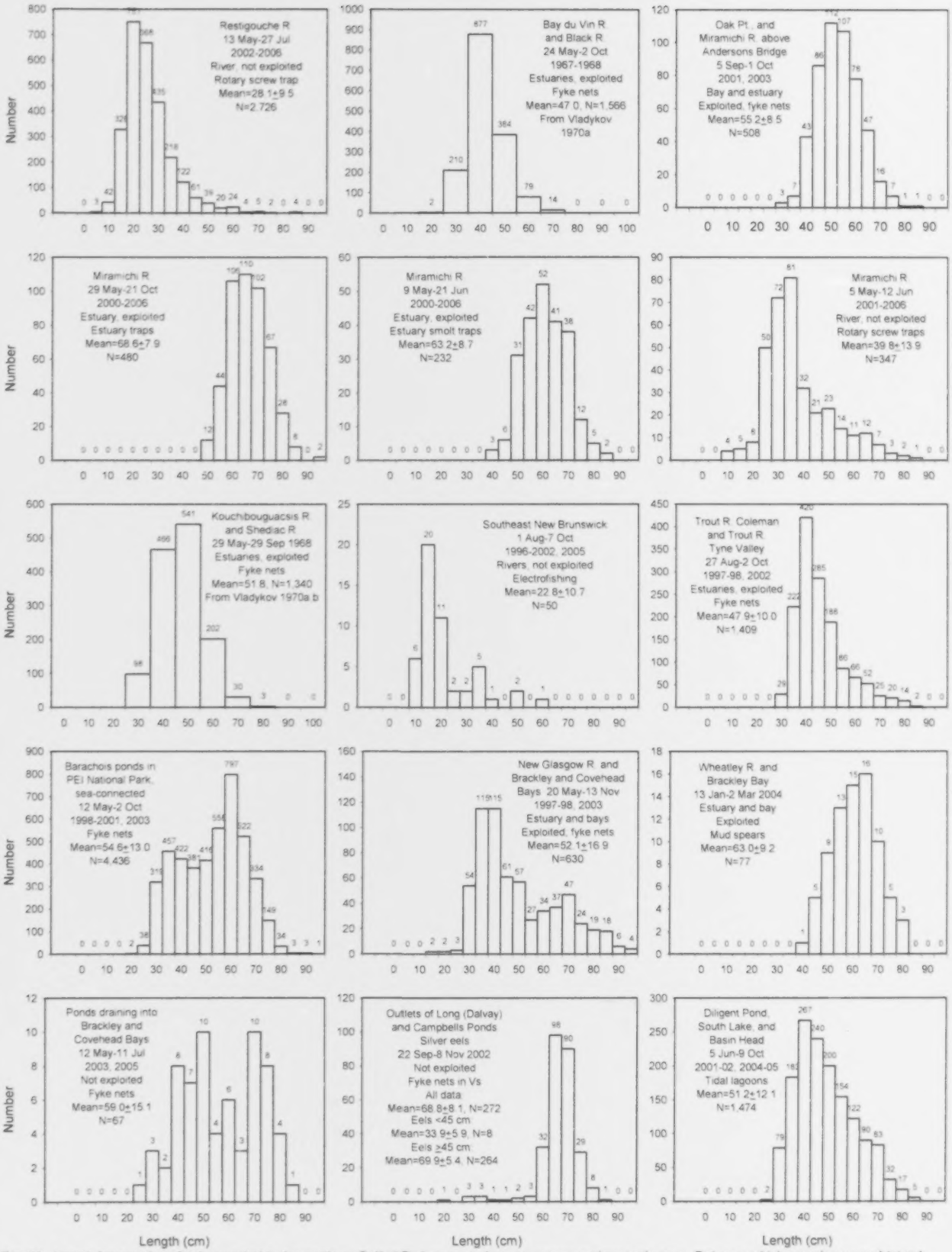


Fig. 20. Length frequencies of eels sampled in the southern Gulf of St. Lawrence, by gear, across regions and years. Dates on which samples were obtained, habitat type, exploitation status, gear type, mean length±SD, and sample size are given in each panel.

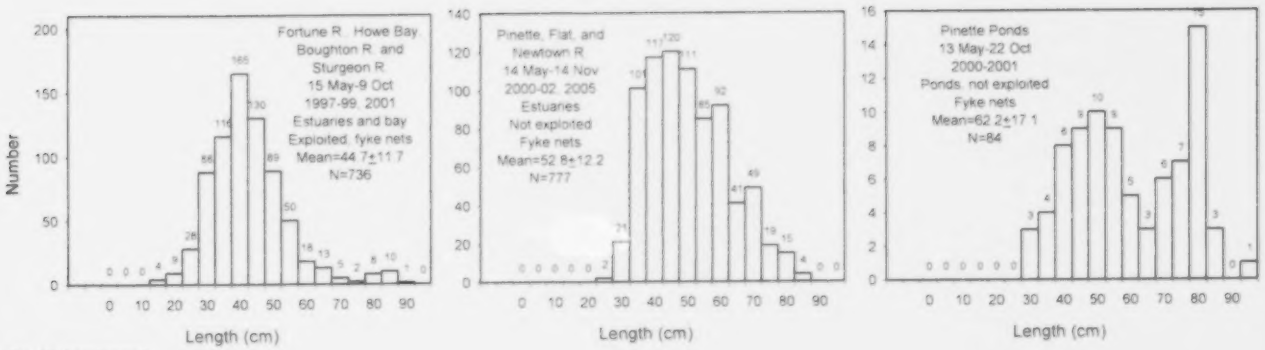


Fig. 20 (continued)

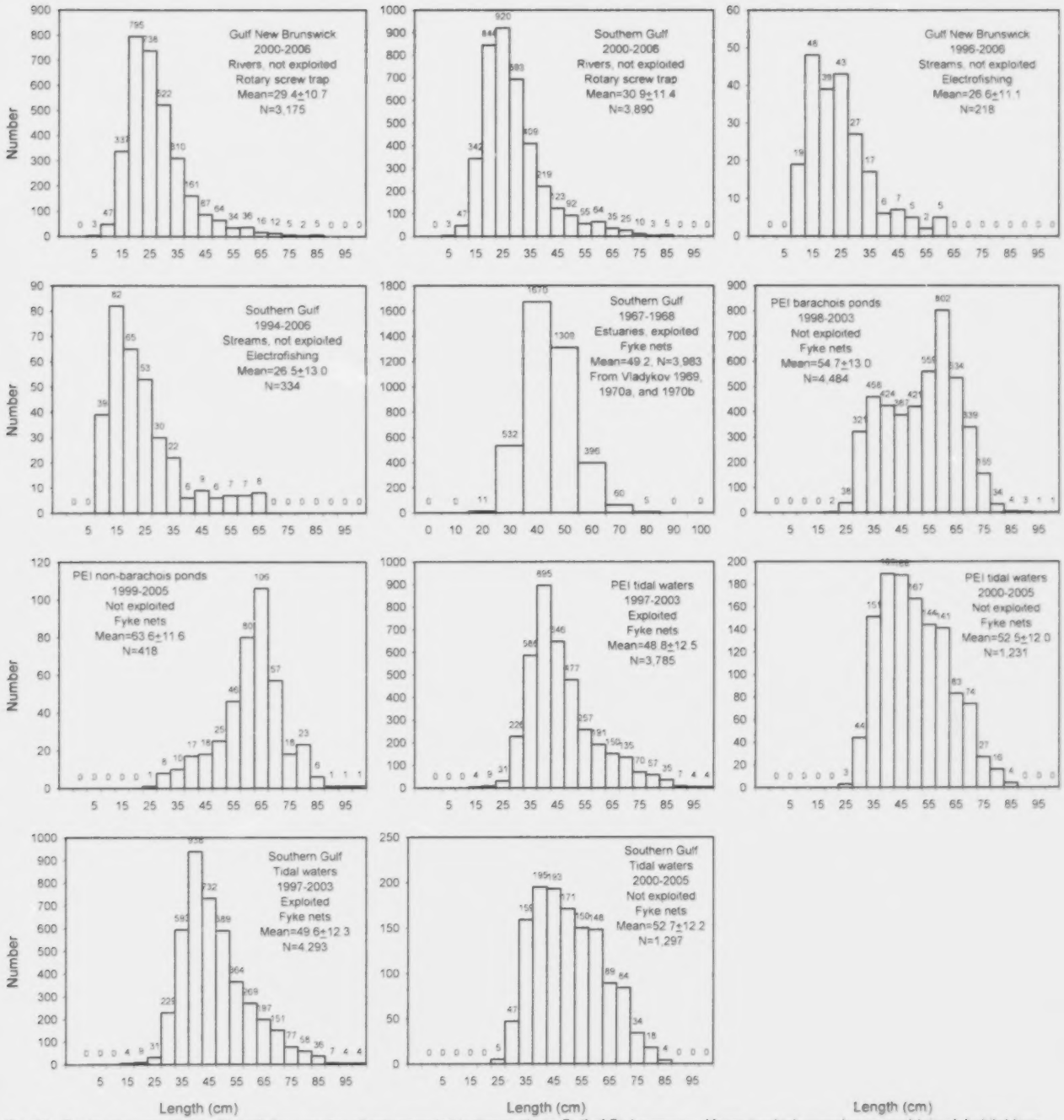


Fig. 21. Regional summations of length frequencies of eels sampled in the southern Gulf of St. Lawrence. Years in which samples were obtained, habitat type, exploitation status, gear type, mean length±SD, and sample size are given in each panel.

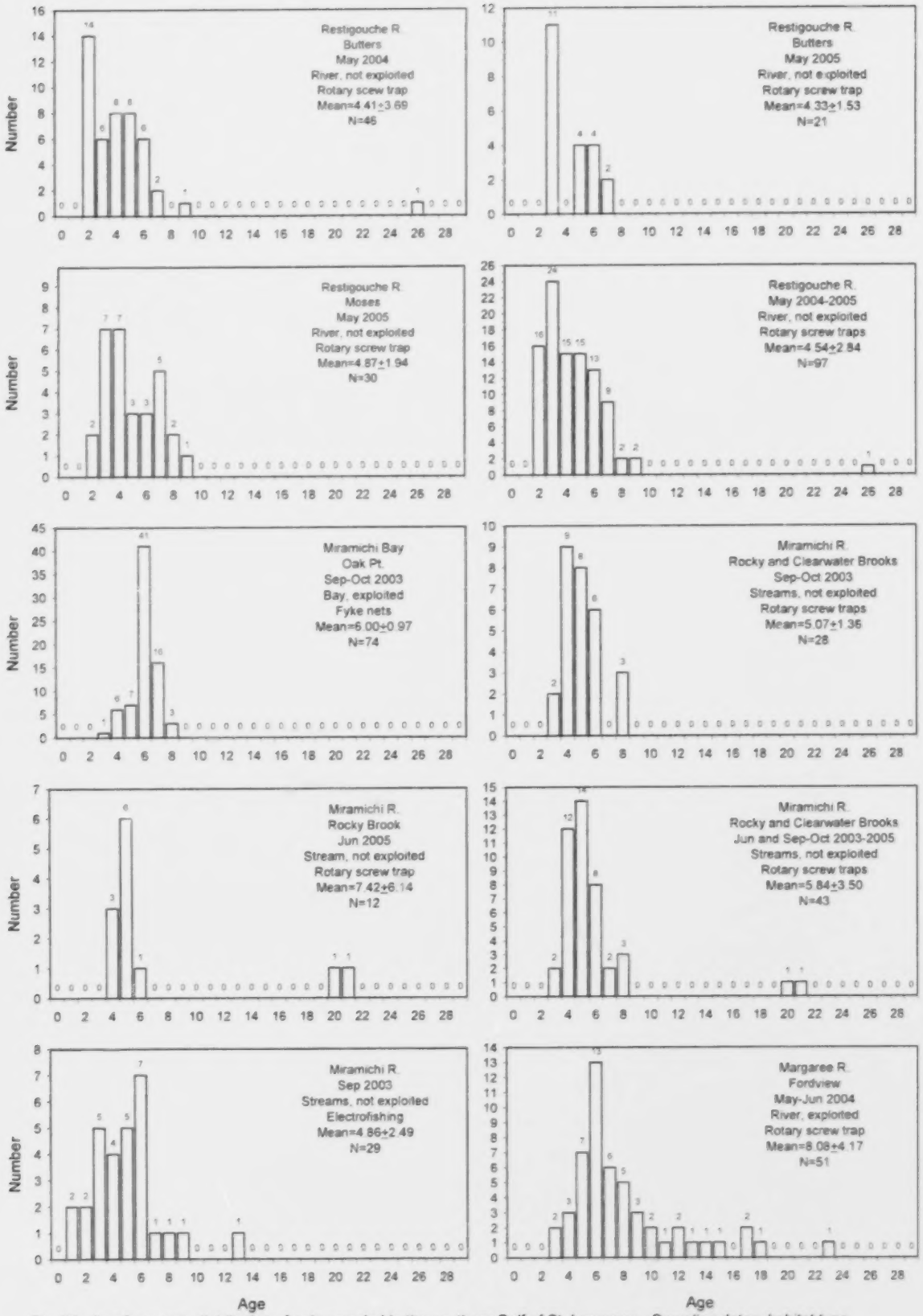


Fig. 22. Age frequency distribution of eels sampled in the southern Gulf of St. Lawrence. Sampling dates, habitat type, exploitation status, gear type, mean age±SD, and sample size are given for each panel.

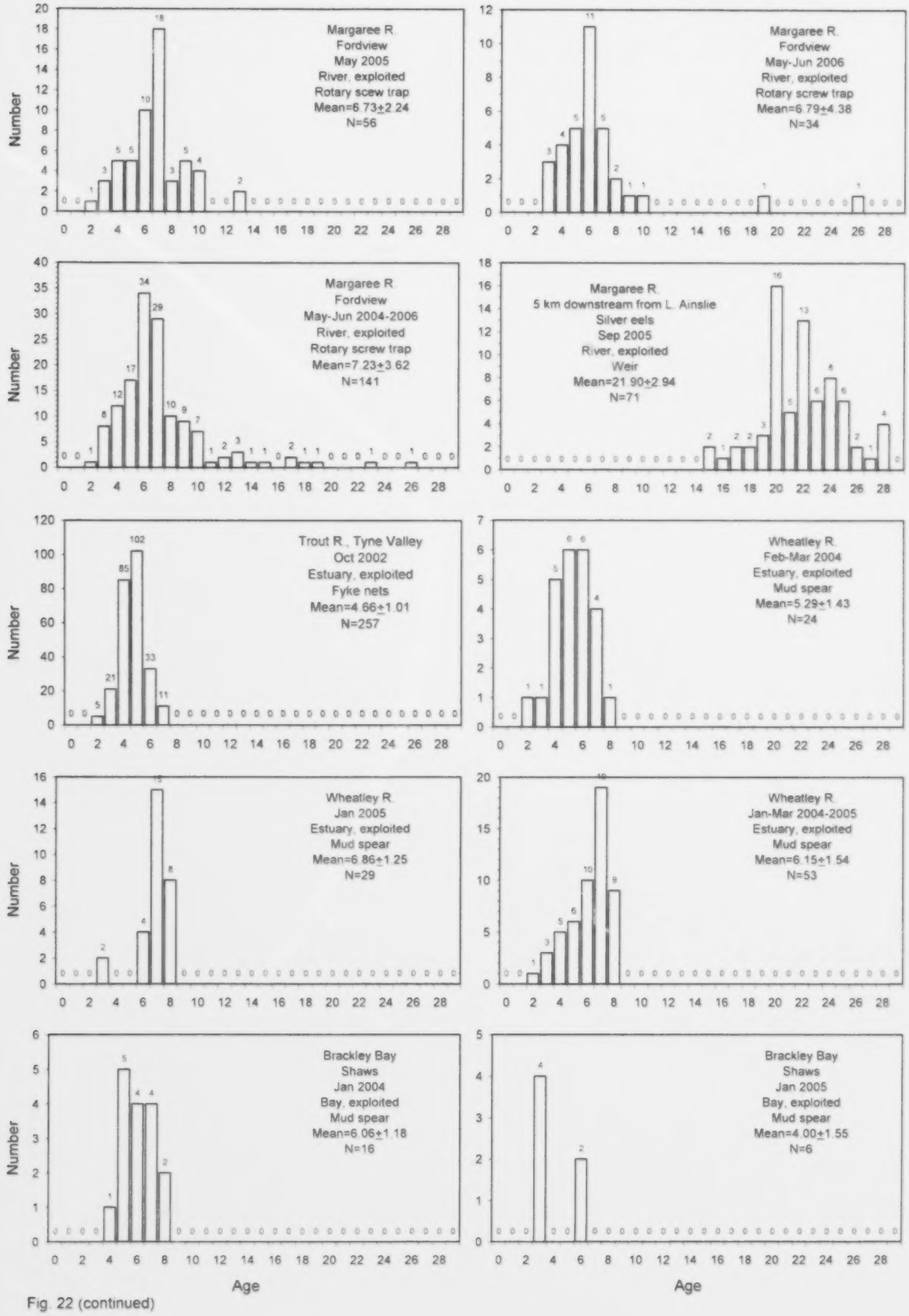
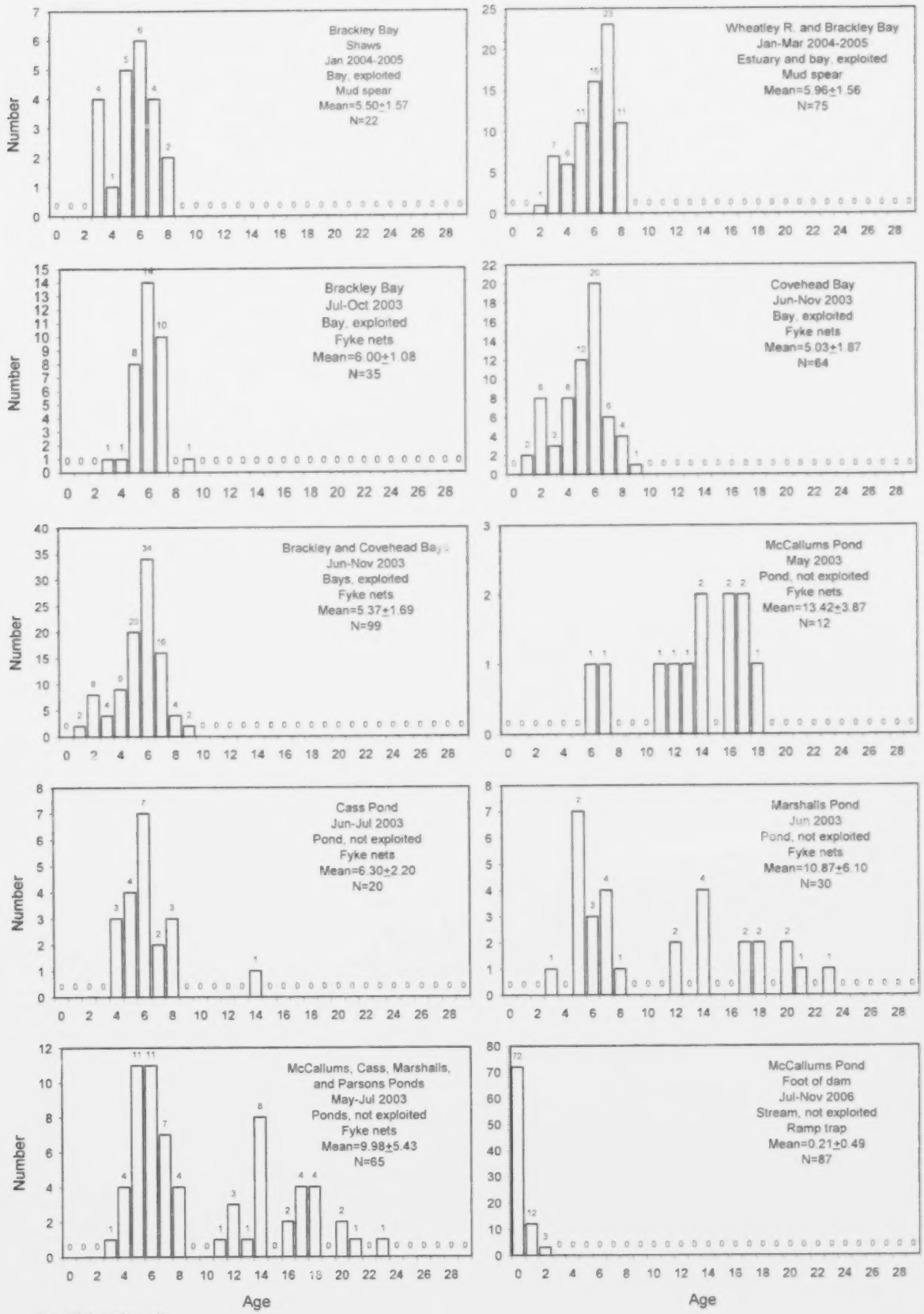


Fig. 22 (continued)



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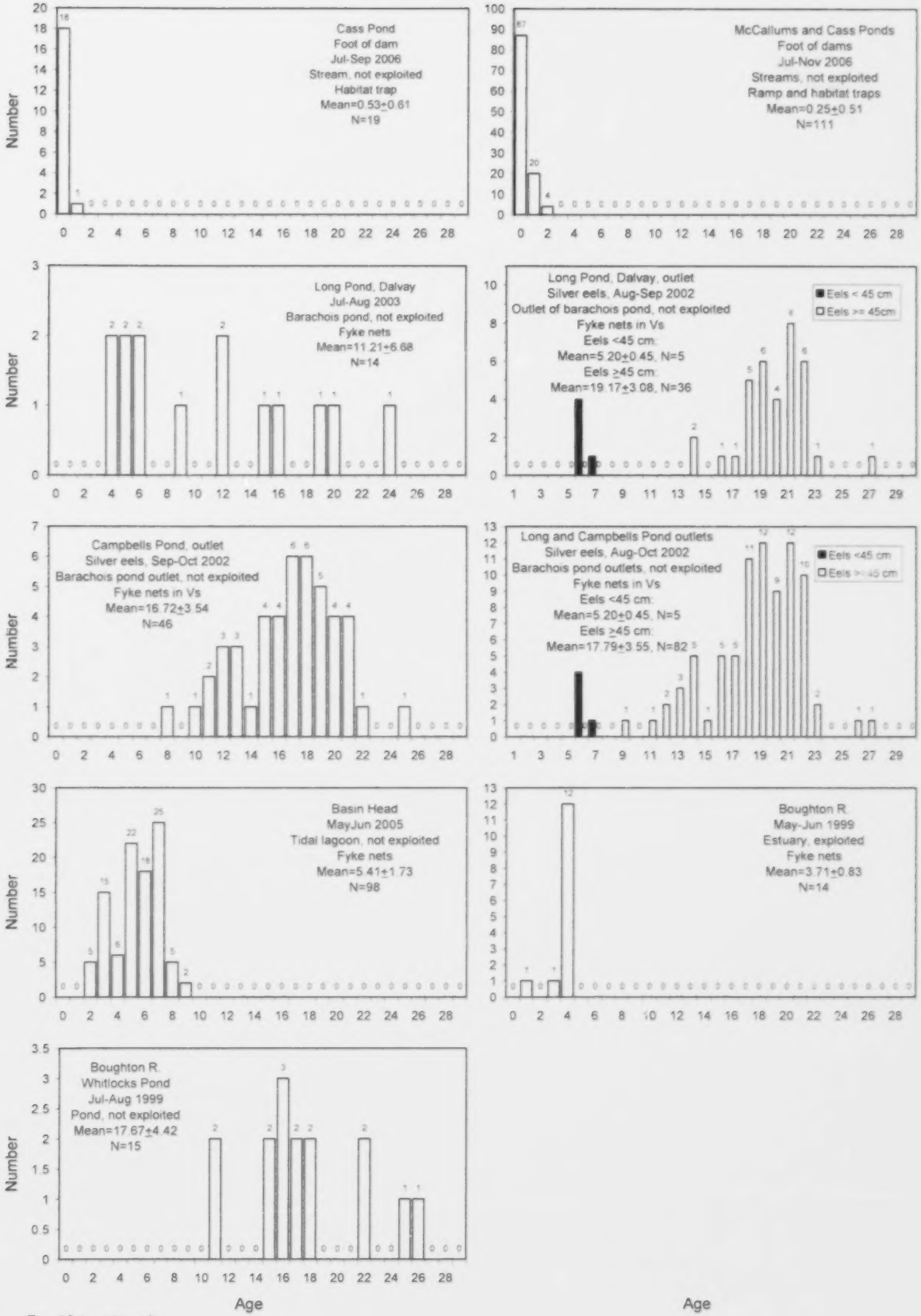

Fig. 22 (continued)